Contact SAMSUNG WORLDWIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk

BN68-02359K-00

SERIES 4

LCD TV
user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

Information on Use

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Do not display a still image and partially still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as 'screen burn'. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen.
  Playing a DVD or a game console may cause a similar effect to the screen.
  Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

WARNINGS:

Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Set-top Box.

To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

IMPORTANT:

Image retention issues are not covered by your Samsung® warranty.

Digital TV Notice

- **Functionalities related to Digital TV(DVB) are only available in countries/areas where DVB-T (MPEG2 and MPEG4 AVC) digital terrestrial signals are broadcasted or where you are able to access to a compatible DVB-C(MPEG2 and MPEG4 AAC) cable- TV service. Please check with your local dealer the possibility to receive DVB-T or DVB-C signal.**
- **DVB-T is the DVB European consortium standard for the broadcast transmission of digital terrestrial television and DVBC is that for the broadcast transmission of digital TV over cable. However, some differentiated features like EPG (Electric Programme Guide), VOD (Video on Demand) and so on, are not included in this specification. So, they cannot be workable at this moment.**
- **Although this TV set meets the latest DVB-T and DVB-C standards, as of [August, 2008], the compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts cannot be guaranteed.**
- **Depending on the countries/areas where this TV set is used some cable-TV providers may charge an additional fee for such a service and you may be required to agree to terms and conditions of their business.**
- **Some Digital TV functions might be unavailable in some countries or regions and DVB-C might not work correctly with some cable service providers.**
- **For more information, please contact your local Samsung customer care centre.**

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DOLBY DIGITAL PLUS	Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Symbol

	Note
	One-Touch Button
	TOOLS Button
	Press

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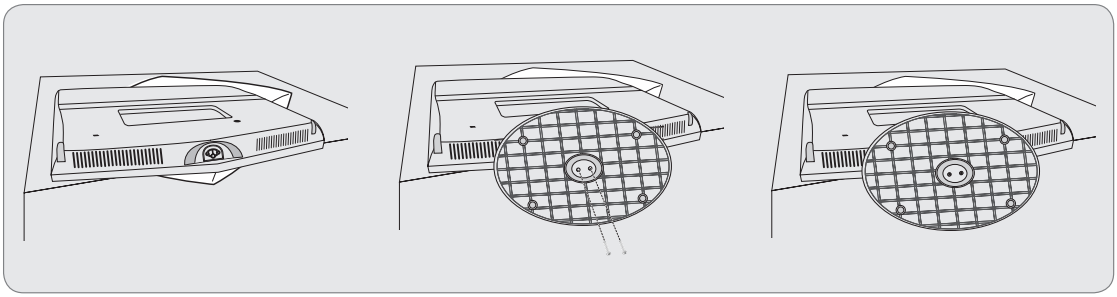
Getting Started

Installing the Stand

1 Place the front of the TV onto a soft cloth or cushion on a table.
- Align the TV bottom along the table edge.

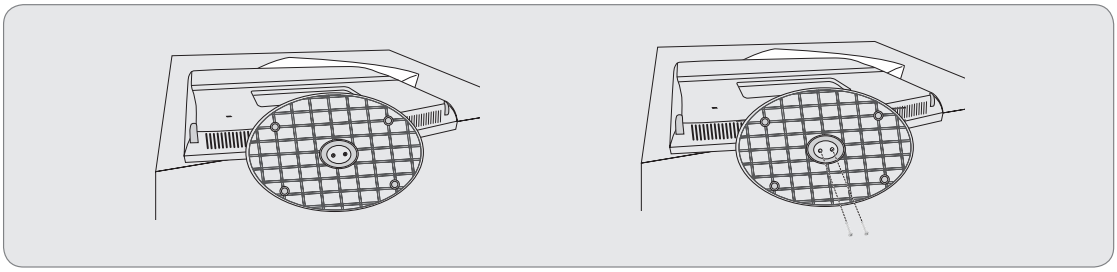
2 Fasten screws at bottom of the stand.
- Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.



Disconnecting the Stand

1 Place the front of the TV onto a soft cloth or cushion on a table.
- Align the TV bottom along the table edge.

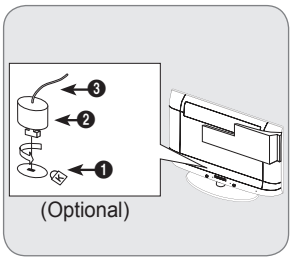
2 Remove screws at bottom of the stand.



Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place.
The appearance and locking method may differ from the illustration depending on the manufacturer.
Refer to the manual provided with the Kensington Lock for proper use.

- The locking device has to be purchased separately.
- The location of the Kensington Lock may be different depending on its model.



(Optional)

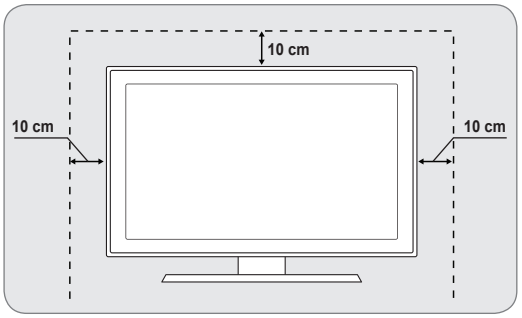
1. Insert the locking device into the Kensington slot on the LCD TV (❶) and turn it in the locking direction (❷).
2. Connect the Kensington Lock cable (❸).
3. Fix the Kensington Lock to a desk or a heavy stationary object.

Securing the Installation Space

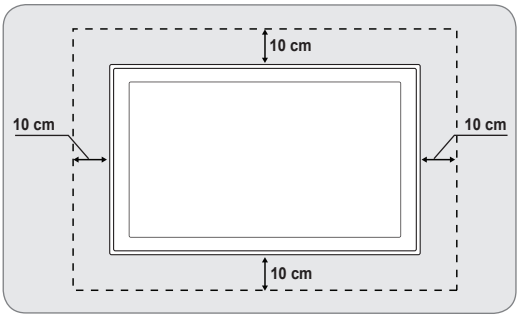
Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.
Install the product so the required distances shown in the figure are kept.

- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
  - If you use parts provided by another manufacturer, it may result in a problem with the product or fire due to an increase in the internal temperature of the product due to poor ventilation.
- The appearance may differ depending on the product.

When installing the product with a stand



When installing the product with a wall-mount

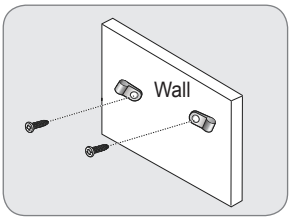


Securing the TV to the Wall

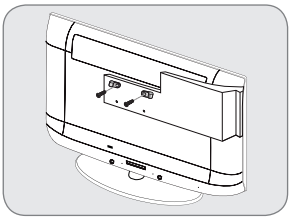
Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling:

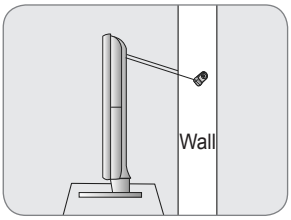
1 Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
- You may need additional material such as an anchor depending on the type of wall.
- Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.



2 Remove the screws from the centre back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
- Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
- Screw Specifications:
  - For a 17 ~ 29 Inch LCD TV: M4 X L15
  - For a 32 ~ 40 Inch LCD TV: M6 X L15



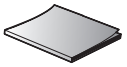
3 Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
- Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
- Untie the string before moving the TV.



4 Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

Accessories

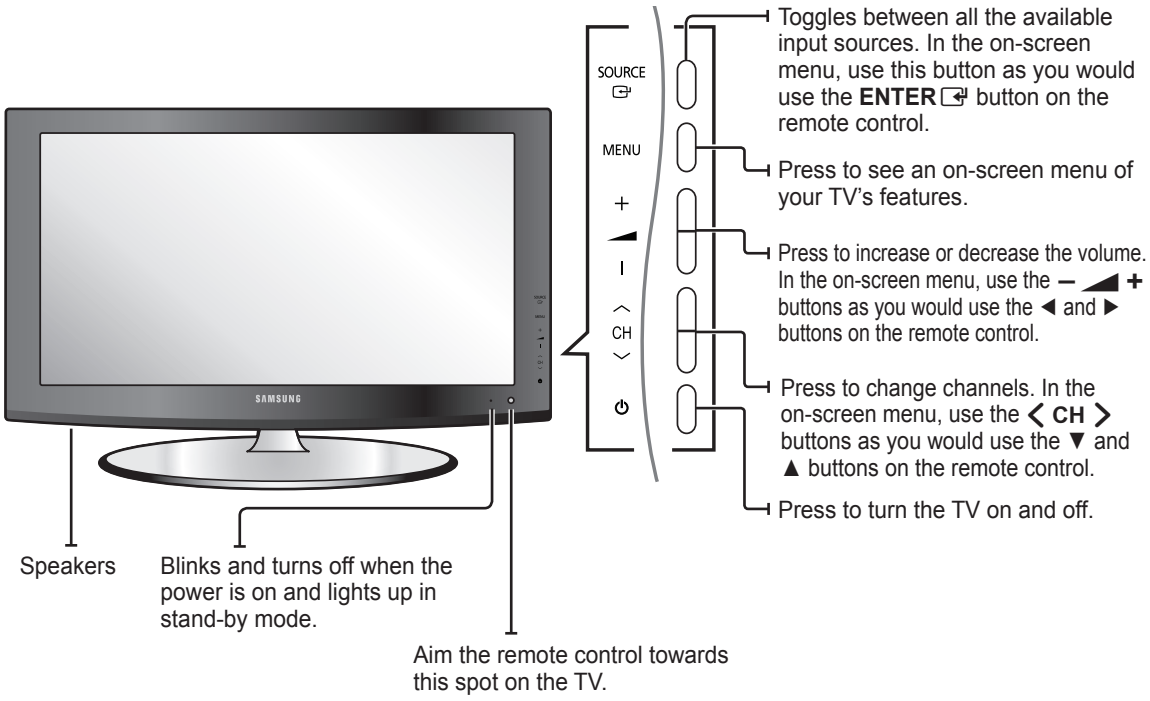
- **Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.**

Remote Control & Batteries (AAA x 2)	Power Cords	Cleaning Cloth
(M4 X L16)		
Stand Screw X 2	User Manual	

- The items colour and shape may vary depending on the model.

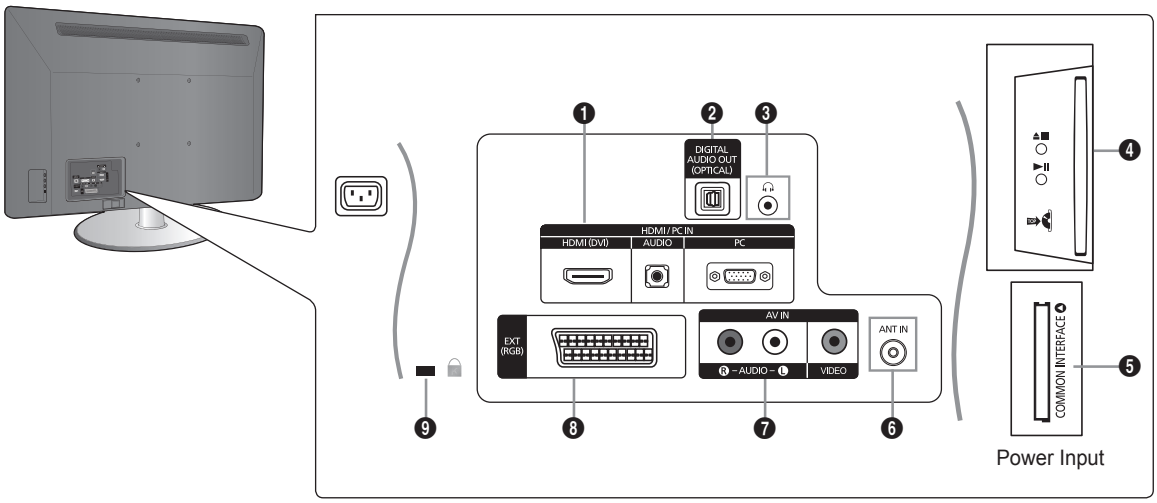
Viewing the Control Panel

- **The product colour and shape may vary depending on the model.**
- **You can use a button by pressing the side panel buttons.**


SOURCE
MENU
+
CH
Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER button on the remote control.
Press to see an on-screen menu of your TV's features.
Press to increase or decrease the volume. In the on-screen menu, use the – + buttons as you would use the ◄ and ► buttons on the remote control.
Press to change channels. In the on-screen menu, use the CH buttons as you would use the ▼ and ▲ buttons on the remote control.
Press to turn the TV on and off.
SAMSUNG
Speakers
Blinks and turns off when the power is on and lights up in stand-by mode.
Aim the remote control towards this spot on the TV.

Viewing the Connection Panel

■ **The product colour and shape may vary depending on the model.**



- The product colour and shape may vary depending on the model.
- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

❶ HDMI/PC IN [HDMI(DVI)]

Connects to the HDMI jack of a device with an HDMI output.

- No additional Audio connection is needed for an HDMI to HDMI connection.
- What is HDMI?

  'High Definition Multimedia interface' allows the transmission of high definition digital video data and multiple channels of digital audio.

  The difference between HDMI and DVI is that the HDMI device is smaller in size and has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed.
- Use the **HDMI/PC IN [HDMI(DVI)]** jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the **HDMI/PC IN [AUDIO]** jacks for audio. When using an HDMI / DVI cable connection, you must use the **HDMI/PC IN [HDMI(DVI)]** jack.

HDMI/PC IN [AUDIO]

– Connect to the audio output jack on your PC.
– DVI audio outputs for external devices.

HDMI/PC IN [PC]

Connect to the video output jack on your PC.

- If your PC supports an HDMI connection, you can connect this to the **HDMI/PC IN [HDMI(DVI)]** terminal.
- If your PC supports a DVI connection, you can connect this to the **HDMI/PC IN [HDMI(DVI)] / [AUDIO]** terminal.

❷ DIGITAL AUDIO OUT (OPTICAL)

Connects to a Digital Audio component such as a Home theatre receiver.

- When the HDMI IN jacks are connected, the **DIGITAL AUDIO OUT (OPTICAL)** jack on the TV outputs 2 channel audio only. If you want to hear 5.1 channel audio, connect the Optical jack on the DVD / Blu-ray player or Cable / Satellite Box directly to an Amplifier or Home Theatre, not the TV.

❸ Headphones jack

Headphone may be connected to the headphone output on your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

- Using the sound function is restricted when connecting headphones to the TV.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.

❹ **DISC TRAY**

Place the disc here.

– ⏏■ (OPEN/CLOSE/STOP): Press to open and close the disc tray. Stops disc play.

  When you eject a DVD, do not push it in again by force. Be sure to use EJECT button or take the DVD out and reinsert it.

– ►II (PLAY/PAUSE): Begin or pause disc play.

❺ **COMMON INTERFACE** Slot

– When not inserting 'CI CARD' in some channels, 'Scrambled Signal' is displayed on the screen.
– The pairing information containing a telephone number, CI CARD ID, Host ID and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
– When the channel information configuration has finished, the message 'Updating Completed' is displayed, indicating that the channel list is now updated.

  You must obtain a CI CARD from a local cable service provider. Remove the CI CARD by carefully pulling it out with your hands since dropping the CI CARD may cause damage to it.

  Insert the CI-Card in the direction marked on it.

  The place of the **COMMON INTERFACE** Slot may be different depending on its model.

  CAM is not supported in some countries and regions, check with your authorized dealer.

❻ **ANT IN**

– Connects to an antenna or cable TV system.

❼ **AV IN [VIDEO / R-AUDIO-L]**

– Connect RCA cable to an appropriate external A/V devices such as VCR, DVD or Camcoder.
– Connect RCA audio cables to [R-AUDIO-L] on your set and the other ends to corresponding audio out connectors on the A/V devices

❽ **EXT**

Connector	Input			Output
	Video	Audio (L / R)	RGB	Video + Audio (L / R)
EXT	O	O	O	Only TV or DTV output is available.

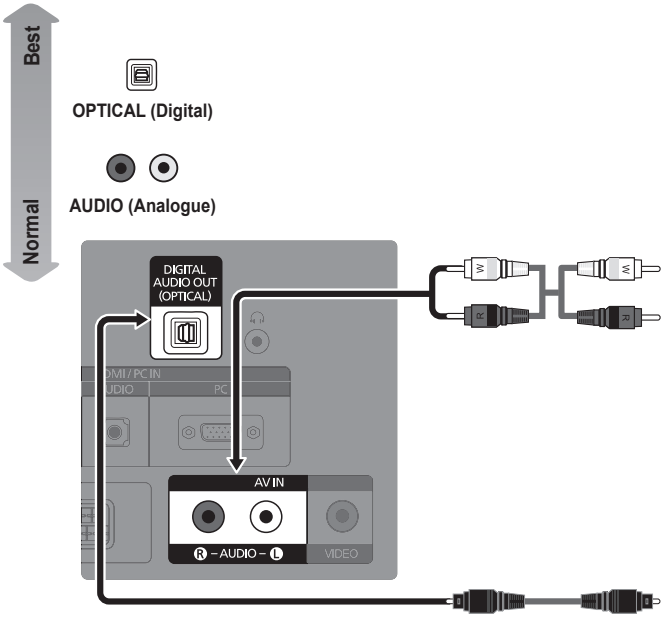
– Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

❾ **KENSINGTON LOCK** (depending on the model)

The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

  The location of the Kensington Lock may be different depending on its model.

Connections



Analogue Audio connection

Using a Audio Cable

Amplifier / DVD Home Theater

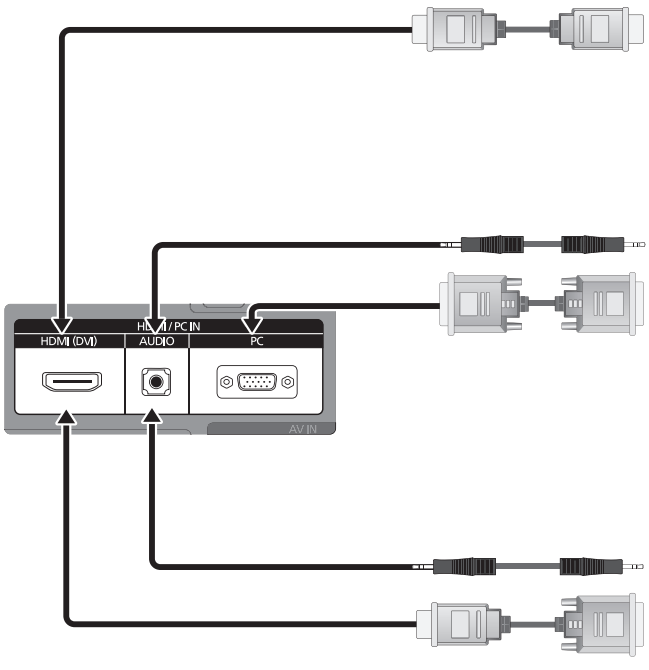
AUDIO OUT

Digital Audio connection

Using an Optical Cable

Digital Audio System

OPTICAL



HD connection

Using an HDMI Cable

HDMI OUT

Using a D-Sub Cable

AUDIO OUT

PC OUT

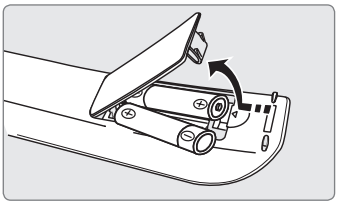
HD connection

Using an HDMI/DVI Cable

AUDIO OUT

DVI OUT

Installing Batteries in the Remote Control



1 Lift the cover at the back of the remote control upward as shown in the figure.

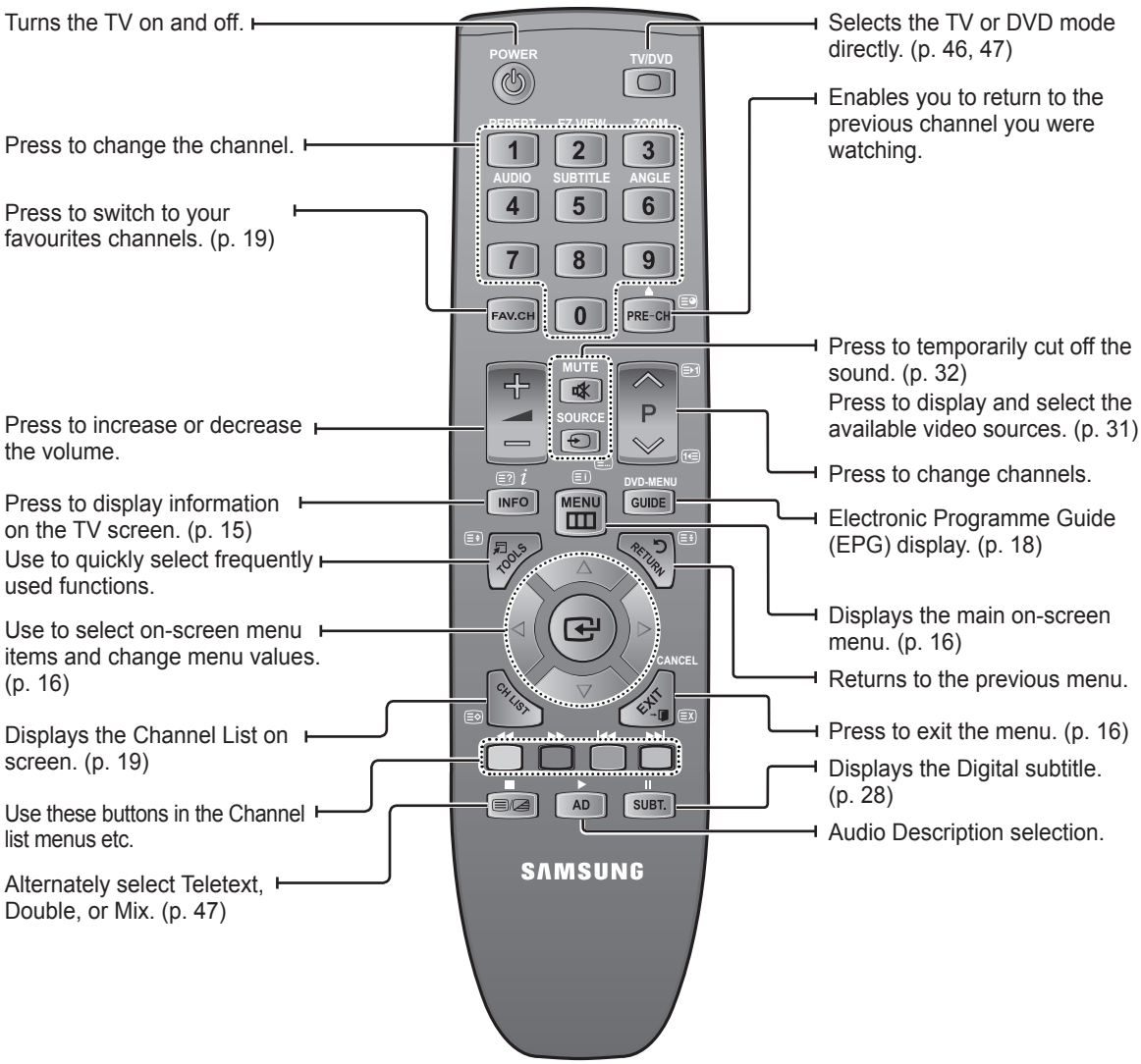
2 Install two AAA size batteries.
- Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.

3 Replace the cover.
- Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

- If the remote control doesn't work, check the following:
  - Is the TV power on?
  - Are the plus and minus ends of the batteries reversed?
  - Are the batteries drained?
  - Is there a power outage or is the power cord unplugged?
  - Is there a special fluorescent light or neon sign nearby?

Viewing the Remote Control

- **You can use the remote control up to a distance of about 23 feet from the TV.**
- **The performance of the remote control may be affected by bright light.**
- **The product colour and shape may vary depending on the model.**


Turns the TV on and off.
Selects the TV or DVD mode directly. (p. 46, 47)
Enables you to return to the previous channel you were watching.
Press to change the channel.
Press to switch to your favourites channels. (p. 19)
Press to temporarily cut off the sound. (p. 32)
Press to display and select the available video sources. (p. 31)
Press to change channels.
Press to increase or decrease the volume.
Press to display information on the TV screen. (p. 15)
Use to quickly select frequently used functions.
Electronic Programme Guide (EPG) display. (p. 18)
Use to select on-screen menu items and change menu values. (p. 16)
Displays the main on-screen menu. (p. 16)
Returns to the previous menu.
Displays the Channel List on screen. (p. 19)
Press to exit the menu. (p. 16)
Use these buttons in the Channel list menus etc.
Displays the Digital subtitle. (p. 28)
Alternately select Teletext, Double, or Mix. (p. 47)
Audio Description selection.
POWER
TV/DVD
REPEAT
FAV.CH
PRE-CH
MUTE
SOURCE
INFO
MENU
GUIDE
DVD-MENU
TOOLS
RETURN
CANCEL
CH LIST
EXIT
AD
SUBT.
SAMSUNG

Teletext **Functions** (p. 46)					
	Teletext mode selection (LIST / FLOF)		Teletext reveal		Teletext previous page
	Teletext store		Exit from the Teletext display		Teletext index
	Teletext size selection		Teletext sub page		Teletext hold
Colour buttons	Fastext topic selection		Teletext next page		Teletext cancel

Basic Operation

Placing Your Television in Standby Mode

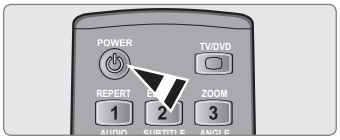
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

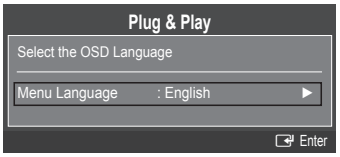
1. Press the **POWER** ⏻ button on the remote control.
   - The screen is turned off and a standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER** ⏻ button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.

1. Press the **POWER** button.
   - You can also use the **POWER** ⏻ button on the TV.
   - The message **Select the OSD Language** is displayed.
2. Select the appropriate language by pressing the ▲ or ▼ button.
   Press the **ENTER** ↵ button to confirm your choice.
3. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** ↵ button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (**Standard**): Press the volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
4. Press the **ENTER** ↵ button. Select the appropriate country by pressing the ▲ or ▼ button. Press the **ENTER** ↵ button to confirm your choice.
5. Press the ▲ or ▼ button to select the channel source to memorize.
   Press the **ENTER** ↵ button to select **Start**.
   - When setting the antenna source to **Cable**, a step appears allowing you to set a value for the digital channel search. For more information, refer to **Channel → Auto Store**.
   - **Digital & Analogue**: Digital and Analogue channels.
   - **Digital**: Digital channels.
   - **Analogue**: Analogue channels.
   - The channel search will start and end automatically.
   - After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
6. Press the **ENTER** ↵ button. Press the ▲ or ▼ button to select **Auto**, then press the **ENTER** ↵ button.
   - If you select **Manual**, **Set current date and time** is displayed.
   - If you have received a digital signal, the time will be set automatically. If not, select **Manual** to set the clock. (Refer to page 27)
7. The connection method to provide the best quality HD is offered.
   After confirming the method, press the **ENTER** ↵ button.
8. The message **Enjoy your TV.** is displayed. When you have finished, press the **ENTER** ↵ button.





- Press the **ENTER** ↵ button at any time to interrupt the memorization process.

If you want to reset this feature...

1 Press the **MENU** button.
Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** ↵ button.

2 Press the **ENTER** ↵ button again to select **Plug & Play**.

3 Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**.
- If you want to change PIN number, use the **Change PIN** function. (refer to page 29)

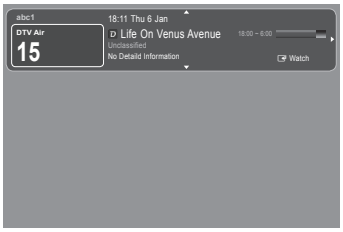
- The **Plug & Play** feature is only available in the TV mode.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

1 Press the **INFO** button on the remote control.
The TV will display the channel, the type of sound, and the status of certain picture and sound settings.
- ▲, ▼: You can view other channel's information. If you want to move to the currently selected channel, press **ENTER** ↵ button.
- ◄, ►: You can view the desired program's information at the current channel.
- Press the **INFO** button once more or wait approximately 10 seconds and the display disappears automatically.

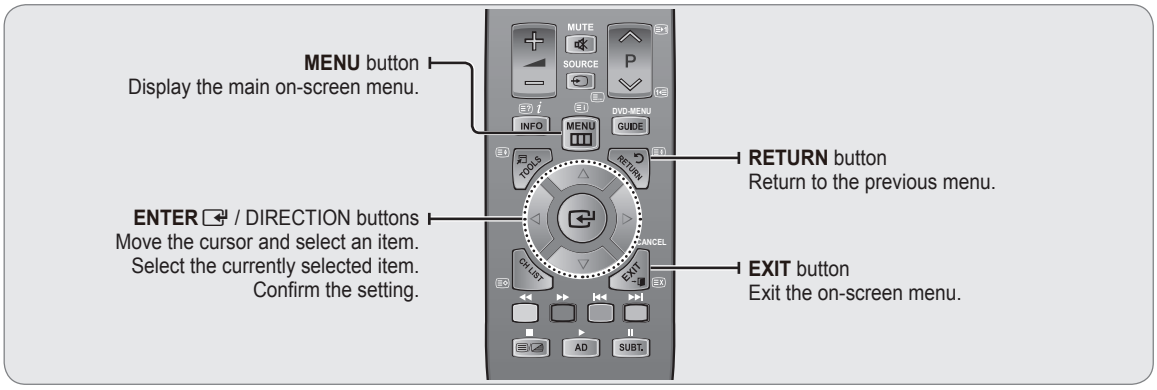
- Press the **INFO** button to viewing the information.



Using the Menus

Viewing the Menus

Menu provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses.



Operation the Menu

The access step may differ depending on the selected menu.

1. Press the **MENU** button.
   - The menu is displayed on the screen.
2. Press the ▲ or ▼ button to select one of the icons.
   Press the **ENTER** button to access the icon's sub-menu.
3. Press the ▲ or ▼ button to move to items in the menu.
   Press the **ENTER** button to enter items in the menu.
4. Press the ▲/▼/◄/► button to change the selected items.
   Press the **RETURN** button to return to the previous menu.
5. Press the **EXIT** button to exit from the menu.

Channel Menu

Channel	
Option	**Description**
Country	■ The PIN number input screen appears. Enter your 4 digit PIN number. ❑ **Digital Channel** You can change the country for digital channels. ❑ **Analogue Channel** You can change the country for analogue channels.
Auto Store	■ You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

■ If a channel is locked using the **Child Lock** function, the PIN input window appears.

Channel	
Option	**Description**
Auto Store	❑ **Digital & Analogue** Digital and Analogue channels. ❑ **Digital** Digital channels. ❑ **Analogue** Analogue channels.
Manual Store	■ Scans for a channel manually and stores it in the TV's memory. ■ If a channel is locked using the **Child Lock** function, the PIN input window appears. ❑ **Digital Channel** Manual store for digital channels. ■ **Channel**: Set the Channel number using the ▲, ▼ or number (**0~9**) buttons. ■ **Frequency**: Set the frequency using the number buttons. ■ **Bandwidth**: Set the bandwidth using the ▲, ▼ or number (**0~9**) buttons. ❑ **Analogue Channel** Manual store for analogue channel. ■ **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (**0~9**) buttons. ■ **Colour System** → **Auto** / **PAL** / **SECAM** / **NTSC4.43**: Sets the colour system value using the ▲ or ▼ button. ■ **Sound System** → **BG** / **DK** / **I** / **L**: Sets the sound system value using the ▲ or ▼ button. ■ **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number. – You can also select the channel number directly by pressing the number (**0~9**) buttons. – If there is abnormal sound or no sound, reselect the sound standard required. ■ **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen. ■ **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** ↵ button.

■ If you want to stop Auto Store, press the **ENTER** ↵ button. The **Stop Auto Store?** message will be displayed. Select **Yes** by pressing the ◄ or ► button, then press the **ENTER** ↵ button.

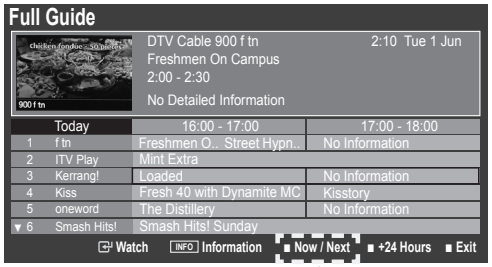
■ **Digital Channel** is only available in DTV mode.
■ When it has finished, channels are updated in the channel list.

■ **Channel mode**
– **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
– **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
– **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

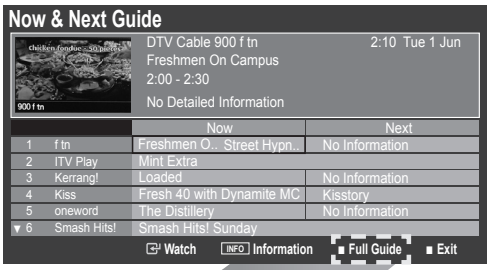
Channel	
Option	**Description**
Now & Next Guide / Full Guide	The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available. ❑ **Now & Next Guide** For the six channels indicated in the left-hand column, displays the Current programme and the Next programme information. ❑ **Full Guide** Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.
Default Guide → Now / Next / Full Guide	You can decide whether to display either the **Now / Next** or the **Full Guide** when the **GUIDE** button on the remote control is pressed.

■ You can also display the guide menu simply by pressing the **GUIDE** button. (To configure the **Default Guide**, refer to the descriptions.)

Full Guide



Now & Next Guide



Using the Now & Next Guide / Full Guide

To...	Then...
Watch a programme in the EPG list	Select a programme by pressing the ▲, ▼, ◄, ► button.
Exit the guide	Press the Blue button
If the next programme is selected, it is scheduled with the clock icon displayed. If the **ENTER** button is pressed again, press the ◄, ► button to select **Cancel Schedules**, the scheduling is cancelled with the clock icon gone.	
View programme information	Select a programme of your choice by pressing the ▲, ▼, ◄, ► button. Then press the **INFO** button when the programme of your choice is highlighted. The programme title is on the upper part of the screen centre.
Please click on **INFO** button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD / SD), Sound Modes, Subtitle or Teletext, languages of Subtitle or Teletext and brief summary of the highlighted programme are included on the detailed information. "..." will be appeared if the summary is long.	
Toggle between the **Now & Next Guide** and **Full Guide**	Press the Red button repeatedly.
In Full Guide Scrolls backwards quickly (24 hours). Scrolls forwards quickly (24 hours).	 Press the Green button repeatedly. Press the Yellow button repeatedly.

Channel	
Option	**Description**
Channel List	Using this menu, you can add / delete or set favourites channels and use the programme guide for digital broadcasts.

❑ All Channels

Shows all currently available channels.

❑ Added Channels

Shows all added channels.

❑ Favourites

Shows all favourite channels.

- To select the Favourites channels you have set up, press the **FAV.CH** button on the remote control.

❑ Programmed

Shows all current reserved programmes.

- Select a channel in the **All Channels**, **Added Channels** or **Favourites** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** ↵ button. Then you can watch the selected channel.
- **Using the Colour buttons with the Channel List**
  - Red (**Channel Type**): Toggle between your **TV**, **Radio**, **Data / Other** and **All**.
  - Green (**Zoom**): Enlarges or shrinks a channel number.
  - Yellow (**Select**): Selects multiple channel lists. You can perform the add/delete or add to favourites/ delete from favourites function for multiple channels at the same time. Select the required channels and press the Yellow button to set all the selected channels at the same time. The ✓ mark appears to the left of the selected channels.

Channel List Option Menu (in All Channels / Added Channels / Favourites)

- Press the **TOOLS** button to use the option menu.
- Option menu items may differ depending on the channel status.

❑ Add / Delete

You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- You can also delete a channel to the **Added Channels** or **Favourites** menu in the same manner.

❑ Add to Favourite / Delete from Favourite

You can set channels you watch frequently as favourites.

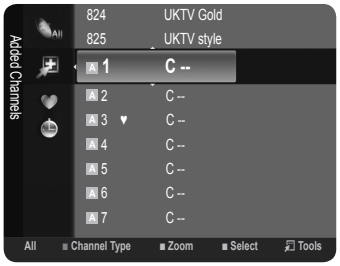
- The '♥' symbol will be displayed and the channel will be set as a favourite.
- All favourite channels will be shown on **Favourites** menu.

❑ Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme, set the current time first.
(Refer to page 27)

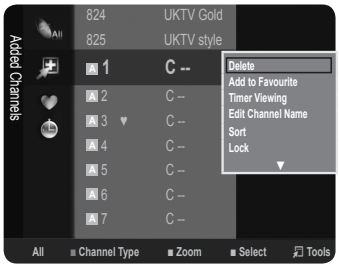
- You can set the channel, day, month, year, hour and minute directly by pressing the number buttons on the remote control.
- Reserving a programme will be shown in the **Programmed** menu.
- **Digital Programme Guide and Viewing Reservation**: When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above.

- You can select these options by simply pressing the **CH LIST** button on the remote control.



- **TOOLS (Tools)**: Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing**, **Edit Channel Name**, **Edit Channel Number**, **Sort**, **Select All** (or **Deselect All**), **Auto Store** menu. (The Options menus may differ depending on the situation.)

- **Channel Status Display Icons**
  - A: An Analogue channel.
  - ✓: A channel selected by pressing the Yellow button.
  - ♥: A channel set as a Favourite.
  - : A programme currently being broadcast.
  - : A locked channel.
  - : A reserved programme



- Press the **TOOLS** button to display the **Tools** menu. You can also set the add to (or delete from) Favourite by selecting **Tools** → **Add to Favourite** (or **Delete from Favourite**).

- A gray-coloured channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.

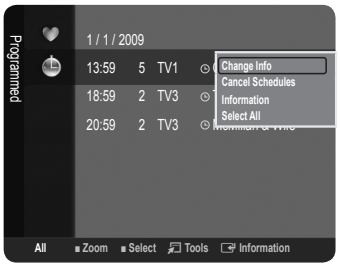
- Only memorized channels can be reserved.

Channel	
Option	**Description**
Channel List	❑ **Edit Channel Name (analogue channels only)** Channels can labelled so that their call letters appear whenever the channel is selected. ❑ **Edit Channel Number (digital channels only)** You can also edit the channel number by pressing the number buttons on the remote control. ❑ **Sort (analogue channels only)** This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store. ❑ **Lock / Unlock** You can lock a channel so that the channel cannot be selected and viewed. ■ This function is available only when the **Child Lock** is set to **On**. (Refer to page 29.) ■ The PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu. ■ The '🔒' symbol will be displayed and the channel will be locked. ❑ **Select All / Deselect All** ■ **Select All**: You can select all the channels in the channel list. ■ **Deselect All**: You can deselect all the selected channels. ❑ **Auto Store** For detailed procedures on setting up options, refer to pages 16~17. **Channel List Option Menu (in Programmed)** You can view, modify or delete a reservation. ■ Press the **TOOLS** button to use the option menu. ❑ **Change Info** Select to change a viewing reservation. ❑ **Cancel Schedules** Select to cancel a viewing reservation. ❑ **Information** Select to view a viewing reservation. (You can also change the reservation information.) ❑ **Select All** Select all reserved programmes.
Channel Mode	When press the **P** ∨/∧ button, Channels will be switched within the selected channel list. ❑ **Added Ch.** Channels will be switched within the memorized channel list. ❑ **Favourite Ch.** Channels will be switched within the favourite channel list.
Fine Tune	If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually. ■ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner. ■ To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.

■ The names of digital broadcasting channels are automatically assigned and cannot be renamed.

■ You can only select **Deselect All** when there is a selected channel.

■ If a channel is locked using the **Child Lock** function, the PIN input window appears.

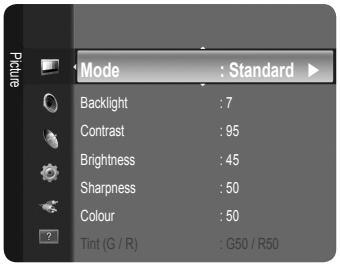


■ Only Analogue TV channels can be fine tuned.

Channel	
Option	**Description**
LNA (Low Noise Amplifier	If the TV is operating in a weak-signal area, the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal). ■ LNA functions only when antenna is set to **Air** or **Cable**. ■ The LNA setting must be made separately for each channel. ■ If the picture is noisy with the LNA set to **On**, select **Off**.

Picture Menu

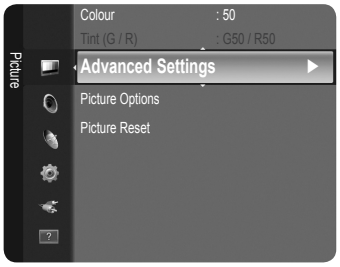
Picture	
Option	**Description**
Mode	Selects the type of picture settings that best correspond to your viewing preferences or requirements. Presets a higher brightness, contrast, and sharpness to the picture. ■ **Dynamic** Recommended for use in bright room conditions. ■ **Standard** Recommended for use in a normal viewing condition. ■ **Movie** Corresponding to the conditions used in movie, recommended for use in darker viewing conditions.
Backlight / Contrast / Brightness / Sharpness / Colour / Tint(G/R)	Your television has several setting options that allow you to control the picture quality. ■ **Backlight** Adjusts the brightness of LCD back light. ■ **Contrast** Increases or decreases the brightness in white areas of the picture. Too little contrast and the picture may seem dark; too much contrast and the picture will lose details in white images. ■ **Brightness** Increases or decreases the overall brightness of the picture, but best used to adjust the black level of the image. Too little brightness and shadow detail will be lost; too much brightness and blacks will be gray and washed out. ■ **Sharpness** Increases or decreases the apparent detail in the picture. Too little sharpness and the image might look soft. Too much sharpness can add false edges to objects or can make noise more noticeable. ■ **Colour** Increases or decreases colour saturation levels in the picture. Too little colour and the image will be black and white (undersaturated); too much colour and the image will look oversaturated and cartoonish. ■ **Tint (G/R)** Changes the picture hue from reddish to a greenish appearance.



■ Press the **TOOLS** button to display the **Tools** menu. You can also set the picture mode by selecting **Tools** → **Picture Mode**.

■ Only analogue **TV**, **Ext.**, **AV** modes of the PAL system, you cannot use the **Tint (G/R)** Function.
■ When you make changes to **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint (G/R)**, the OSD will be adjusted accordingly.
■ In PC mode, you can only make changes to **Backlight**, **Contrast** and **Brightness**.
■ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
■ The energy consumed during use can be significantly reduced if the brightness level of the picture is lowered, which will reduce the overall running cost.

Picture	
Option	**Description**
Advanced Settings	Samsung's new TVs allow you to make even more precise picture settings than previous models. ■ **Black Tone → Off / Dark / Darker / Darkest** Increases the picture's shadow detail by lightening the black level (ie changing the gamma) at low levels. This is most commonly used for watching movies with dark scenes to keep the picture from appearing washed out in bright rooms. ■ **Dynamic Contrast → Off / Low / Medium / High** Increases or decreases the difference between the brightest and darkest portions of the image with changing scenes. Shadows are more visible with dark scenes, while contrast is enhanced with bright scenes. ■ **Gamma** Changes the rate at which images ramp or fade from light to dark. Recommended for advanced users only. ■ **Colour Space** Increases or decreases the visible colour range for red, green and blue. Recommended for advanced users only. – **Auto**: The TV will choose the colour range that is closest to the range used during TV and movie production. – **Native**: Displays the most enhanced, vibrant colours possible. ■ **White Balance** You can adjust the colour temperature for more natural picture colours. – **R, G, B-Offset:** Fine tunes the white balance, or colour 'temperature' in dark areas by changing the individual values of R, G, B. Recommended for advanced users only. – **R, G, B-Gain:** Fine tunes the white balance, or colour 'temperature' in the light areas by changing the individual values of R, G, B. Recommended for advanced users only. – **Reset**: The previously adjusted white balance will be reset to the factory defaults. ■ **Flesh Tone** Adjusts the colour of flesh tones. Increasing the value creates a more reddish picture. Decreasing the value creates a more greenish picture. ■ **Edge Enhancement** Increases or decreases the emphasis at object edges.
Picture Options	■ **Colour Tone** Selects a preset white balance, or "colour temperature" setting, to provide either a reddish or bluish hue, dependant upon your personal preference. – **Cool:** Selects a white balance, or colour "temperature" with a bluish hue. Skin tones may have less warmth but whites will seem brighter. Recommended when watching normal TV broadcasting in a bright room. – **Normal:** Selects the white balance, or colour "temperature" with a less bluish, more reddish hue. Suitable for most viewing environments and programs. – **Warm1**, **Warm2:** Selects a redder, warmer hue that more closely matches the setting on monitors used in the production of TV and movie content. Recommended when watching movie and dramatic TV content. The lowest setting is best used for black & white content.



■ **Advanced Settings** is available in **Standard** or **Movie** mode.
■ In PC mode, you can only make changes to **Gamma** and **White Balance** from among the **Advanced Settings** items.

■ Changing the adjustment value will refresh the adjusted screen.

■ In PC mode, you can only make changes to the **Colour Tone** and **Size** from among the items in **Picture Options**.
■ **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

Picture	
Option	**Description**
Picture Options	■ **Size** Changes the screen shape in terms of height and width. Also known as Aspect Ratio. – **Auto Wide**: Enables the correct picture size to match the original video signal. – **16:9**: Sets the picture aspect ratio to fill the screen. – **Wide Zoom**: Enlarges the middle part of the picture. – **Zoom**: Magnifies the picture contents horizontally and vertically. – **4:3**: Sets the picture aspect ratio to 4:3 with black or gray side bars. – **Screen Fit**: Matches every pixel of the original image to a pixel on the TV screen (aka 1:1 pixel mapping) to show the entire image. ● **Wide Zoom**: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up / down. Then press the **ENTER** button. ● **Zoom**: Press the ► button to Select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to Select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button. ● After selecting **Screen Fit** in **HDMI** (1080i) mode: Select **Position** by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture. **Reset**: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting. ■ **Screen Mode** When setting the picture size to **Auto Wide** in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it. – **16:9**: Sets the picture to 16:9 wide mode. – **Wide Zoom**: Magnify the size of the picture more than 4:3. – **Zoom**: Magnify the size of the picture vertically on screen. – **4:3**: Sets the picture to 4:3 normal mode. ■ **Digital NR → Off / Low / Medium / High / Auto** Can reduce the grain effect or level of video snow seen in images coming from poor quality sources. ■ **HDMI Black Level → Normal / Low** Adjusts the black level in the picture according to the type of signal being transmitted through HDMI. ■ **Film Mode** Applies the appropriate video processing needed to achieve the best picture quality for watching movies. – **Off**: Turn the Film Mode function off. – **Auto**: Improves the picture quality for fast motion scenes.
Picture Reset	Resets all picture settings to the default values. ■ **Reset Picture Mode**: Current picture values return to default settings.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the size by selecting **Tools → Picture Size**.

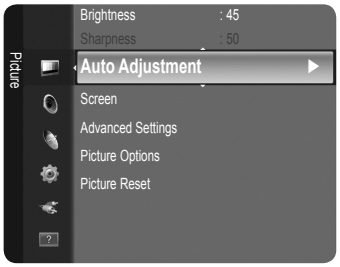
■ Depending on the input source, the picture size options may vary.
■ The items available may differ depending on the selected mode.
■ In PC Mode, only **16:9** and **4:3** mode can be adjusted.
■ Settings can be adjusted and stored for each external device you have connected to an input of the TV.
■ Temporary image retention may occur when viewing a static image on the set for more than two hours.

■ This function is available in **Auto Wide** mode.
■ This function is not available in **PC** or **HDMI** mode.

■ This function is active only when an external device is connected to the TV via HDMI (RGB signals).

■ **Film Mode** is supported in **TV**, **AV** and **HDMI** (480i / 1080i).

Picture (In the PC mode)	
Option	**Description**
Auto Adjustment	Use the Auto Adjust function to have the TV set automatically adjust the video signals it receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.
Screen	■ **Coarse** / **Fine** The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the centre of screen. ■ **PC Position** Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position. ■ **Image Reset** You can replace all image settings with the factory default values.

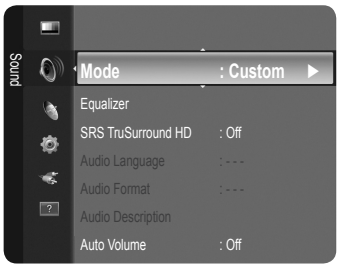


■ **Preset**: Press the **SOURCE** button to select **PC** mode.
■ This function does not work in DVI-HDMI mode.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment.**

Sound Menu

Sound	
Option	**Description**
Mode	You can select a sound mode to suit your personal preferences. ■ **Standard**: Selects the normal sound mode. ■ **Music**: Emphasizes music over voices. ■ **Movie**: Provides the best sound for movies. ■ **Clear Voice**: Emphasizes voice over other sounds. ■ **Custom**: Recalls your customized sound settings.
Equalizer	The sound settings can be adjusted to suit your personal preferences. ■ **Mode**: Selects the sound mode among the predefined settings. ■ **Balance L/R:** Adjusts the balance between the right and left speaker. ■ **100Hz** / **300Hz** / **1KHz** / **3KHz** / **10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies. ■ **Reset**: Resets the equalizer settings to the default values.
SRS TruSurround HD	SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.
Audio Language **(digital channels only)**	You can change the default value for audio languages. Displays the language information for the incoming stream. ■ While viewing a digital channel, this function can be selected. ■ You can only select the language among the actual languages being broadcast.
Audio Format **(digital channels only)**	When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function. ■ While viewing a digital channel, this function can be selected. ■ The Audio Format appears according to the broadcasting signal.
Audio Description **(digital channels only)**	This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume. ■ **Audio Description** Turn the audio description function on or off. ■ **Volume** You can adjust the audio description volume. – **Volume** is active when **Audio Description** is set to **On**. ■ While viewing a Digital channel, this function can be selected.
Auto Volume	Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.
Speaker Select	When you watch TV with it connecting to a Home theatre, turn the TV speakers off so you can listen to sound from the Home theatre's (external) speakers. ■ **External Speaker**: Used to listen to the sound of the External (Home Theatre) Speakers. ■ **TV Speaker**: Used to listen to the sound of the TV Speakers.



■ Press the **TOOLS** button to display the **Tools** menu. You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the SRS TruSurround HD by selecting **Tools** → **SRS TS HD**.

■ Press the **AD** button on the remote control to select **Off** or **On**.

■ **Auto Volume** is not available in HDMI mode.

■ The volume buttons and **MUTE** buttons do not operate when the **Speaker Select** is set to **External Speaker**.

■ If you select **External Speaker** in the **Speaker Select** menu, the sound settings will be limited.

Sound	
Option	**Description**
Sound Reset	You can restore the Sound settings to the factory defaults.

Selecting the Sound Mode

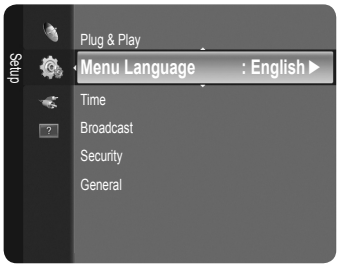
You can set the sound mode in the **Tools** menu. When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Audio Type	Dual 1 / 2	Default
A2 Stereo	Mono	**MONO**	Automatic change
	Stereo	**STEREO** ↔ **MONO**	
	Dual	**DUAL 1** ↔ **DUAL 2**	**DUAL 1**
NICAM Stereo	Mono	**MONO**	Automatic change
	Stereo	**MONO** ↔ **STEREO**	
	Dual	**MONO** ↔ **DUAL 1** / **DUAL 2**	**DUAL 1**

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in TV mode.

Setup Menu

Setup	
Option	**Description**
Menu Language	You can set the menu language.
Time	❑ **Clock** Setting the clock is necessary in order to use the various timer features of the TV. If you disconnect the power cord, you have to set the clock again. ■ **Clock Mode** You can set up the current time manually or automatically. – **Auto**: Set the current time automatically using the time from the digital broadcast. – **Manual**: Set the current time to a manually specified time. ■ **Clock Set** You can set the current time manually. – This function is only available when **Clock Mode** is set to **Manual**. – You can set the day, month, year, hour and minute directly by pressing the number buttons on the remote control. ❑ **Sleep Timer** The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes). ■ The TV automatically switches to standby mode when the timer reaches 0. ■ To cancel the **Sleep Timer** function, select **Off**. ❑ **Timer 1 / Timer 2 / Timer 3** Three different on / off timer settings can be made. You must set the clock first. ■ **On Time** Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.) ■ **Off Time** Set the hour, minute, and activate / inactivate. (To activate timer with the setting you've chosen, set to **Activate**.) ■ **Volume** Set the desired volume level. ■ **Antenna** Select **Air** or **Cable**. ■ **Channel** Select the desired channel. ■ **Repeat** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual**. – When **Manual** is selected, press the ▶ button to select the desired day of the week. Press the **ENTER** ↵ button over the desired day and the ✓ mark will appear.



■ The current time will appear every time you press the **INFO** button.

■ Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.
■ The Antenna or cable must be connected in order to set the time automatically.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

■ You can set the hour, minute and channel by pressing the number buttons on the remote control.

■ **Auto Power Off**
When you set the timer on, the TV will be eventually turned off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer on mode and prevents overheating, which may occur if a TV is on for too long time.

Setup	
Option	**Description**
Broadcast	❑ **Subtitle** You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. **Normal** under the menu is the basic subtitle and **Hearing Impaired** is the subtitle for a hearing-impaired person. ■ **Subtitle** Switches subtitles on or off. ■ **Mode** Sets the subtitle mode. ■ **Subtitle Language** Set the subtitle language. – If the programme you are watching does not support the **Hearing Impaired** function, **Normal** automatically is activated even though **Hearing Impaired** mode is selected. – English is the default in cases where the selected language is unavailable in the broadcast. ❑ **Digital Text** If the programme broadcasts with digital text, this feature is enabled. ■ MHEG (Multimedia and Hypermedia Information Coding Experts Group) An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games. ❑ **Teletext Language** You can set the Teletext language by selecting the language type. ■ English is the default in cases where the selected language is unavailable in the broadcast. ❑ **Preference** ■ **Primary Audio Language** / **Secondary Audio Language** / **Primary Subtitle Language** / **Secondary Subtitle Language** / **Primary Teletext Language** / **Secondary Teletext Language** Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel. If you change the language setting, the Subtitle Language or Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language. The Subtitle Language or Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language or Primary Audio Language, or the Primary Teletext Language of the Preference menu.

■ You can select these options simply by pressing the **SUBT.** button on the remote control.

Setup	
Option	**Description**
Broadcast	❑ **Common Interface** ■ **CI Menu** This enables the user to select from the CAM-provided menu. Select the CI Menu based on the menu PC Card. ■ **Application Info.** This contains information on CAM inserted in the CI slot and displays it. The Application Info inserting is about the CI CARD. You can install the CAM anytime whether the TV is ON or OFF. **1.** Purchase the CI CAM module by visiting your nearest dealer or by phone. **2.** Insert the CI CARD into the CAM in the direction of the arrow until it fits. **3.** Insert the CAM with the CI CARD installed into the common interface slot. (Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.) **4.** Check if you can see a picture on a scrambled signal channel.
Security	■ Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number. ■ The default PIN number of a new TV set is "**0-0-0-0**". You can change the PIN by selecting **Change PIN** from the menu. ❑ **Child Lock → Off / On** This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by muting out video and audio. ■ You can lock some channels in Channel List. ❑ **Parental Lock** This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programme by a 4-digit PIN (Personal Identification Number) code that is defined by the user. ■ The **Parental Lock** item differs depending on the country. ■ When the Parental Lock is set, the '🔒' symbol is displayed. ■ **Allow All**: Press to unlock all TV ratings. ■ **Block All**: Press to lock all TV ratings. ❑ **Change PIN** You can change your personal ID number that is required to set up the TV.

■ CAM is not supported in some countries and regions, check with your authorized dealer.

■ **Child Lock** is available only in TV mode.

■ If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: **POWER** (Off) → **MUTE** → **8** → **2** → **4** → **POWER** (On).

Setup	
Option	**Description**
General	❑ **Game Mode** When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu. ■ If **Game Mode** is On: – Picture mode is automatically changed to **Standard** and cannot be changed. – Sound mode is automatically changed to **Custom** and cannot be changed. Adjust the sound using the equalizer. ■ The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer settings to the factory defaults. ❑ **Energy Saving → Off / Low / Medium / High / Picture Off / Auto** This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption. If you select **Picture Off**, the screen is turned off and you can only hear the sound. Press any button to get out of **Picture Off**. ❑ **Melody → Off / Low / Medium / High** A melody sound can be set to come on when the TV is powered On or Off. ■ The Melody does not play – When no sound is output from the TV because the **MUTE** button has been pressed. – When no sound is output from the TV because the volume has been reduced to minimum with the volume (-) button. – When the TV is turned off by Sleep Timer function.

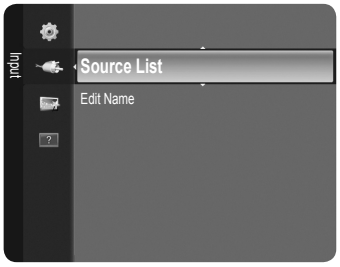
■ To disconnect the game console and connect another external device, cancel game mode in the setup menu.
■ If you display the TV menu in **Game Mode**, the screen shakes slightly.
■ **Game Mode** is not available in regular **TV, PC** and **Ext.** mode.
■ If the picture is poor when external device is connected to TV, check if **Game Mode** is **On**. Set **Game Mode** to **Off** and connect external devices.

■ In the **Tools** menu, **Picture Off** function is not supported.

■ Press the **TOOLS** button to display the **Tools** menu. You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

Input Menu

Input	
Option	**Description**
Source List	Use to select TV or other external input sources such as DVD / Blu-ray players / Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice. ■ **TV / Ext. / AV / PC / HDMI/DVI / DVD** – You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom. ● **TOOLS** (**Tools**): Displays the **Edit Name** and **Information** menus.
Edit Name	Name the device connected to the input jacks to make your input source selection easier. ■ **VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA** – When connecting an HDMI/DVI cable to the **HDMI/PC IN [HDMI(DVI)]** port, you should set the **HDMI/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.



■ Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button.

■ Ext. and PC always stay activated.

Support menu

Support	
Option	**Description**
Self Diagnosis	■ **Picture Test** If you think you have a picture problem, perform the picture test. Check the colour pattern on the screen to see if the problem still exists. – **Yes**: If the test pattern does not appear or there is noise in the test pattern, select **Yes**. Therefore, contact Samsung's call centre for assistance. – **No**: If the test pattern is properly displayed, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual. ■ **Sound Test** If you think you have a sound problem, please perform the sound test. You can check the sound by playing a built-in melody sound through the TV. 'Does the problem still exist with this sound test?' appears on the screen. – **Yes**: If during the sound test you can hear sound only from one speaker or not at all, select **Yes**. Therefore, contact Samsung's call centre for assistance. – **No**: If you can hear sound from the speakers, select **No**. There may be a problem with your external equipment. Please check your connections. If the problem still persists, refer to the external device's user manual. ■ **Signal Information (digital channels only)** Unlike analogue channels, which can vary in reception quality from 'snowy' to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analogue channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.
Software Upgrade	To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade. ■ **By Channel** Upgrades the software using the broadcasting signal. ■ **Standby Mode Upgrade** To continue software upgrade with master power on, select **On** by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the LCD product. This phenomenon may continue for more than 1 hour until the software upgrade is completed. – **Caution**: During **Standby Mode Upgrade**, you may hear a low noise for few seconds. If you don't want to hear the noise, set **Standby Mode Upgrade** to **Off**. ■ **Alternative Software** To display the software version information.
HD Connection Guide	This menu presents the connection method that provides the optimal quality for the HD TV. Refer to this information when connecting external devices to the TV.
Contact Samsung	View this information when your TV does not work properly or when you want to upgrade the software. You can view the information regarding the call centre, product and software file download method.

■ If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV speaker** in the Sound menu.

■ The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.

■ If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.

■ If the function is selected during the software transmission period, this function searches for available software and downloads the software.

■ The time required to download the software is determined by the signal status.

DVD Player functions

Support	
Option	**Description**
Precautions	❑ **CAUTION** THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL. CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT PRODUCTO LÁSER CLASE 1 – This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc. – The product unit accompanying this user manual is licensed under certain intellectual property rights of certain third parties. In particular, this product is licensed under the following US patents: 5,060,220 5,457,669 5,561,649 5,705,762 5,987,417 6,043,912 6,222,983 6,272,096 6,377,524 6,377,531 6,385,587 6,389,570 6,408,408 6,466,532 6,473,736 6,477,501 6,480,829 6,556,520 6,556,521 6,556,522 6,578,163 6,594,208 6,631,110 6,658,588 6,674,697 6,674,957 6,687,455 6,697,307 6,707,985 6,721,243 6,721,493 6,728,474 6,741,535 6,744,713 6,744,972 6,765,853 6,765,853 6,771,890 6,771,891 6 775,465 6,778,755 6,788,629 6,788,630 6,795,637 6,810,201 6,862,256 6,868,054 6,894,963 6,937,552. This license is limited to private non-commercial use by end-user consumers for licensed contents. No rights are granted for commercial use. The license does not cover any product unit other than this product unit and the license does not extend to any unlicensed product unit or process conforming to ISO/IEC 11172-3 or ISO/IEC 13818-3 used or sold in combination with this product unit. The license only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this license for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3. ❑ **Handling Cautions** – Before connecting other components to this player, be sure to turn them all off. – Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged. – Do not put a flower vase filled with water or any small metal objects on the player. – Be careful not to put your hand into the disc tray. – Do not place anything other than the disc in the disc tray. – Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally. – Be sure to remove the disc and turn off the player after use. – Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time. – Clean the disc by wiping in a straight line from the inside to the outside of the disc. – The Main plug is used as a disconnect device and shall stay readily operable at any time. Note: – This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere. – This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc. – If you wish to reinsert the same disc please ensure you completely remove the DVD from the Deck before you reinsert it. ❑ **Disc Storage** Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment. – Do not keep under direct sunlight. – Keep in a cool ventilated area. – Store vertically. – Keep in a clean protection jacket.

Support	
Option	**Description**
General Features	❑ **Screen** Both regular and widescreen(16:9) pictures can be viewed. ❑ **Slow Motion** An important scene can be viewed in slow motion. ❑ **Parental Control (DVD)** The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc. ❑ **Various On-Screen MenuFunctions** You can select various languages (Audio/Subtitle) and screen angles while enjoying movies. ❑ **EZ VIEW (DVD)** Easy View enables picture adjustment to match your TV's screen size (16:9 or 4:3). ❑ **Digital Photo Viewer (JPEG)** You can view Digital Photos on your TV. ❑ **Repeat** You can repeat a song or movie simply by pressing the **REPEAT** button. ❑ **MP3/WMA** This unit can play discs created from MP3/WMA files. ❑ **MPEG4** This unit can play MPEG4 formats within an avi file.
Disce type and characteristics	This DVD player is capable of playing the following types of discs with the corresponding logos: ■ COPY PROTECTION DVD Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copyprotected DVD discs. This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be auzthorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD DVD VIDEO	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	● DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. ● Various screen and audio functions can be easily selected through the onscreen menu.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	
AUDIO-CD COMPACT disc DIGITAL VIDEO	Audio	12 Cm	74 min.	● CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	

Support				
Option	**Description**			
Disc Markings	1 ~ 6	Play Region Number	MP3 disc	MP3 disc
	DOLBY DIGITAL PLUS	Dolby Digital disc	dts Digital Out	DTS disc
	DIGITAL SOUND	Digital Audio disc	STEREO	Stereo disc
	PAL	PAL broadcast system in U.K, France, Germany, etc.		

- You must only insert one DVD disc at a time or you may cause damage to the DVD player.
- Discs which cannot be played with this player. (DVD-ROM / DVD-RAM / CD-ROM / CDV / CDI / CVD / CDGs play audio only, not graphics.)
- Ability to play back may depend on recording conditions. (DVD-R, +R / CD-RW / DVD+RW, -RW (V mode))
- The unit may not play certain CD-R, CD-RW and DVD-R due to the disc type or recording conditions.

DivX Certification
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Region Number	Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this player is described on the rear panel of the player.

DVD Feature

1. **REPEAT** (number 1): Allows you to repeat play a chapter or title.
2. **AUDIO** (number 4): Use this button to access various audio functions on a disc.
3. ◀◀ / ▶▶ (Search buttons): Allow you to search forward/back ward through a disc.
   ⏮ / ⏭ (SKIP buttons): Use to skip the title, chapter or track.
   ■ (Stop button)
   ▶ (Play button): Begin disc play.
   II (Pause button): Pause disc play.
4. **TV/DVD**: Selects the TV or DVD mode directly.
5. **EZ VIEW** (number 2): The aspect ratio of a picture can easily be adjusted according to the screen size of your TV (16:9 or 4:3).
6. **ZOOM** (number 3): Enlarges the DVD Picture.
7. **ANGLE** (number 6): Press this to access various camera angles on a disc (if the disc contains multiple camera angles).
8. **SUBTITLE** (number 5): Press this to switch the Blu-ray Disc/DVD's subtitle language.
9. **⏏ :** To open and close the disc tray.
   When you eject a DVD, do not push it in again by force. Be sure to use EJECT button or take the DVD out and reinsert it.
10. **DVD MENU**: Brings up the DVD player's menu.
11. **CANCEL**: Use to remove menus or status displays from the screen.

Basic funcions of your DVD player

Support	
Option	**Description**
Playing a Disc	■ **Before Play** Turn on your TV and set it to the correct video Input by pressing TV/DVD button on the TV remote control. If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input. ■ **Playback** **1.** Place a disc gently into the tray with the disc's label facing up. **2.** Once inserted, the disc will automatically start to play. – When you stop disc play, the player remembers where you stopped, so when you press AD (►) button again, it will pick up where you left off. **3.** Stopping Play: Press the (■) button during play. **4.** Removing Disc: Press the **PRE-CH** (⏏) button. **5.** Pausing Play: Press the **SUBT.** (**II**) button on the remote control during play. – Screen stops, no sound. To resume, press the **AD** (►) button once again. **6.** Slow **Motion Play**: Press the Red / Green (◄◄ / ►►) button to choose the play speed between 1/2, 1/4 and 1/8 of normal during PAUSE mode. – No sound is heard during slow mode. – Press the **AD** (►) button to resume normal play. ■ If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated. Press the **AD** (►) button to resume normal play. ■ If the player is left in the stop mode for more than about 30 minutes, the power will automatically shut off. (Automatic Power-Off Function) ■ If the player is left for about 5 minutes in pause mode, it will stop. ■ This (⊘) icon indicates an invalid button press.
Using the Search and Skip Functions	During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection. ■ **Searching through a Chapter or Track** During play, press the Red or Green (◄◄ / ►►) button on the remote control for more than 1 second. – DVD: 2X, 4X, 64X, 128X ■ **Skipping Tracks** During play, press the Yellow or Blue (I◄◄ / ►►I) button. – When playing a DVD, if you press the Blue (►►I) button, it moves to the next chapter. If you press the Yellow (I◄◄) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter. – When playing a CD in Menu Off mode, if you press the Blue (►►I) button, it moves to the next track. If you press the Yellow (I◄◄) button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.

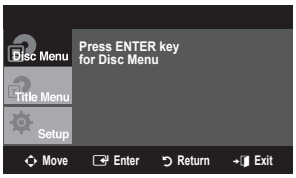
■ DVD-related operations are not available in modes other than the DVD mode.

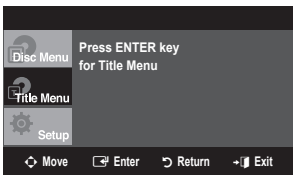
■ If a DVD disc is inserted while in standby mode, the power will not be turned on and the auto-playback will not start.

■ The speed marked in this function may be different from the actual playback speed.
■ No sound is hearing during search mode.

Support	
Option	**Description**
Using the Display Function	■ **When Playing a DVD/MPEG4** **1.** During play, press the **INFO** button on the remote control. **2.** Press the ▲ / ▼ buttons to select the desired item. **3.** Press the ◄ / ► buttons to make the desired setup and then press the **ENTER** ↵ button. – You may use the number buttons of the remote control to directly access a title, chapter or to start the play back from a desired time. **4.** To make the screen disappear, press the **RETURN** ↩ or **EXIT** →▯ button again.
Title	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
Chapter	Most DVD discs are recorded in chapters so that you can quickly find a specific passage.
Time	Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some disc.
Audio	Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.
Subtitle	Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.
Shourt cut	When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Support	
Option	**Description**
Using the Disc and Title Menu	■ **Using the Disc Menu** **1.** During the playback of a DVD disc, press the **GUIDE (DVD MENU)** button on the remote control. **2.** Press the ▲ / ▼ buttons to select **Disc Menu**, then press the ► or **ENTER** ↵ button. ■ Depending on the disc, the Disc Menu may not work. ■ **Using the Title Menu** **1.** During the playback of a DVD disc, press the **GUIDE (DVD MENU)** button on the remote control. **2.** Press the ▲ / ▼ buttons to select **Title Menu**, then press the ► or **ENTER** ↵ button. ■ The Title Menu may not work. Depending on the disc. ■ Title Menu will only be displayed if there are at least two titles in the disc.
Repeat Play	Repeat the current chapter, title. ■ **When playing a DVD** **1.** Press the **REPEAT** (number 1) button on the remote control. Repeat screen appears. – DVD repeats play by chapter or title. – Chapter : repeats the chapter that is playing. – Title : repeats the title that is playing. – Repeat : Off
Slow Play	This feature allows you slowly to repeat scenes containing sports, dancing, musical instruments being played etc., so you can study them more closely. ■ **When playing a DVD** **1.** During play, press the **SUBT.** (**II**) button. **2.** Press the Red or Green (◄◄ / ►►) button to choose the play speed between 1/2, 1/4 and 1/8 of normal during PAUSE mode.





Advaced functions

Support	
Option	**Description**
Adjusting the Aspect Ratio (EZ View)	■ **To play back using aspect ratio (DVD)** Press the **EZ VIEW** (number 2) button. – The screen size changes when the button is pressed repeatedly. ■ **If you are using a 16:9 TV** For 16:9 aspect ratio discs – WIDE SCREEN: Displays the content of the DVD title in 16:9 aspect ratio. – SCREEN FIT: The top and bottom portions of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on a type of disc, the black bars may not disappear completely.) – ZOOM FIT: The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarge. For 4:3 aspect ratio discs – Normal Wide: Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched. – SCREEN FIT: The top and bottom portions of the screen are cut off and the full screen appears. – The picture will look vertically stretched. – ZOOM FIT: The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged. – Vertical Fit: When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.
Selecting the Audio Language	You can select a desired audio language quickly and easily with the **AUDIO** (number 4) button. ■ **Using the AUDIO button (DVD/MPEG4)** **1.** Press the **AUDIO** (number 4) button. The Audio changes when the button is pressed repeatedly. The audio languages are represented by abbreviations. Press **AUDIO** (number 4) button repeatedly on the remote control to select the desired Audio on MPEG4 then press the **ENTER** ↵. **2.** To remove the **AUDIO** icon, press the **EXIT**→ or **RETURN**↩ button. ■ This function depends on audio languages are encoded on the disc and may not work. ■ A DVD disc can contain up to 8 audio languages. ■ To have the same audio language come up whenever you play a DVD; Refer to 'Changing setup menu' on page 44.
Selecting the Subtitle Language	You can select a desired subtitle quickly and easily with the **SUBTITLE** (number 5) button. ■ **Using the SUBTITLE button (DVD/MPEG4)** **1.** Press the **SUBTITLE** (number 5) button. The subtitle languages are represented by abbreviations. The subtitle changes when the button is pressed repeatedly. External subtitle option will appear, depends the DivX Disc. Press **SUBTITLE** (number 5) button at Remote control repeatedly to select the desired subtitle language on a MPEG4. **2.** To remove the **SUBTITLE** icon, press the **EXIT**→ or **RETURN**↩ button.

■ The DTS-encoded audio stream is not supported.
■ The DOLBY DIGITAL-encoded audio stream will be decoded and then outputted through the PCM.

■ You have to change the desired subtitle in the Disc Menu, according to discs.
■ This function depends on what subtitles are encoded on the disc and may not work on all DVDs.
■ A DVD disc can contain up to 32 subtitle languages.
■ To have the same subtitle language come up whenever you play a DVD; Refer to 'Changing setup menu' on page 44.

Support	
Option	**Description**
Changing the Camera Angle	When a DVD contains multiple angles of a particular scene, you can use the ANGLE function. ■ Using the Zoom Function (DVD) **1.** During play or pause mode, press the **ZOOM** (number 3) button on the remote control. **2.** Press the **ENTER** ↵ button to activate **ZOOM** mode. **3.** Press the ▲ / ▼ or ◄ / ► buttons to select the part of the screen you want to zoom in-on. ■ **Using the ANGLE function (DVD)** If the disc contains multiple angles, the **ANGLE** appears on the screen. **1.** During play or pause mode, press the **ANGLE** (number 6) button on the remote control. **2.** Press the ▲ / ▼ buttons to select Function, then press the ► or **ENTER** ↵ button. **3.** Press the ▲ / ▼ buttons to select Angle, then press the ► or **ENTER** ↵ button. **4.** Press the ◄ / ► buttons or you can use the number buttons on the remote control to select the desired angle.
Using the Setup Menu	The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level. **1.** While the unit in **Stop** mode, press the **GUIDE (DVD MENU)** button on the remote control. Use the ▲ / ▼ buttons to select **Setup**, then press the ► or **ENTER** ↵ button. **2.** Press the ▲ / ▼ buttons to access the different features. Press the ► or **ENTER** ↵ button to access the sub features. **3.** To make the setup screen disappear after setting up, press the **GUIDE (DVD MENU)** button again.

■ During DVD play, press the **ENTER** ↵ button to zoom in 2X / 4X / 2X / normal in order.

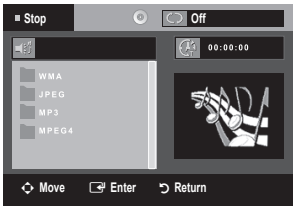
■ If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.
■ Depending on the disc, these functions may not work.

■ T o keep any changes made by the user under the DVD menu, after making a change to a desired item, the **DVD MENU** should be turned off before turning the power off.
■ Some Setup Menu selections may not work, Depending on the disc.

Clips Menu for MP3 / WMA/ JPEG / MPEG4 / CD Audio

CD Audio or discs with MP3 / WMA / JPEG / MPEG4 contain individual songs and/or pictures that can be organized into folders as shown below. They are similar to how you use your computer to put files into different folders.

- Open the disc tray.
- Place the disc on the tray.
- Close the tray.
- The tray closes and this screen displays



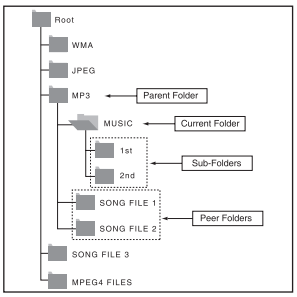
	Name of currently playing file.
	Current Playback Time.
	Current Playback Mode : There are four modes. They can be selected in order by pressing the **REPEAT** button. ● Off: Normal Playback ● Track: Repeats the current track. ● Folder: Repeats the current folder ● Random: Files in the disc will be played in random order.

MP3	MP3 file icon.	WMA	WMA file icon.
JPG	JPEG file icon	AVI	**AVI file icon.**
CD	**CD Audio file icon.**		Folder icon.
	Current Folder icon.		

■ When playing MP3, WMA or JPEG, the Picture Quality and the HDMI Resolution cannot be set.

■ When playing MPEG4 file, the VIDEO SEL. only works in stop mode.

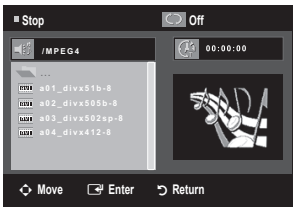
Support	
Option	**Description**
Folder Selection	The folder can be selected both in Stop or Play mode. – **To select the Parent Folder**: Press the **RETURN** button to go to parent folder, or press the ▲ / ▼ buttons to select '...' and press **ENTER** to go to the parent folder. – **To select the Peer Folder**: Press the ▲ / ▼ buttons to select the desired folder, then press **ENTER**. – **To select the Sub-Folder**: Press the ▲ / ▼ buttons to select the desired folder, then press **ENTER**.
MP3/WMA/CD Audio Playback	**1.** Open the disc tray. Place the disc on the tray. Close the tray. – Only one kind of file is played back when a disc or a folder contains both MP3 and WMA files. **2.** Press the ▲ / ▼ or ◄ / ► buttons to select a audio file. Press **ENTER** to begin playback of the audio file. ■ **Repeat/Random playback** Press the **REPEAT** button to change the playback mode. There are four modes, such as **Off, Track, Folder** and **Random**. – **Off**: Normal Playback – **Track**: Repeats the current audio file. – **Folder**: Repeats the audio files which have the same extension in the current folder. – **Random**: Audio files which have the same extension will be played in random order. To resume normal play, press the **CANCEL** button.



Support	
Option	**Description**
MP3/WMA/CD Audio Playback	■ **CD-R MP3/WMA file** When you record MP3 or WMA files on CD-R, please refer to the following. ● Your MP3 or WMA files should be ISO 9660 or JOLIET format. – ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. This format is the most widely used. ● When naming your MP3 or WMA files, do not exceed 8 characters, and enter '.mp3, .wma' as the file extension. – General name format : Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+). ● Use a decompression transfer rate of at least 128 Kbps when recording MP3 files. – Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with decompression rates below 128 Kbps will not be played properly. ● Use a decompression transfer rate of at least 64Kbps when recording WMA files. – Sound quality with WMA files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps. Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly. Sampling rate that can be supported for WMA files is > 30Khz. ● Do not try recording copyright protected MP3 files. – Certain 'secured' files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows MediaTM (registered trade mark of Microsoft Inc) and SDMITM (registered trade mark of The SDMI Foundation). You cannot copy such files.
MPEG4 Playback	■ **MPEG4 Play Function** AVI files are used to contain the audio and video data. Only AVI format files with the '.avi' extensions can be played. **1.** Open the disc tray. Place the disc on the tray. Close the tray. **2.** Press the ▲ / ▼ or ◄ / ► buttons to select an avi file (DivX/XiviD) and then press **ENTER** ↵ button.

■ Important: The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CDRs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).

■ This unit can play a maximum of 500 files and 500 folders per disc.



MPEG4 Function Description

Function	Description
Skip (⏮ or ⏭)	During play, press the ⏮ or ⏭ button, it moves forward or backward 5 minutes.
Search (◀◀ or ▶▶)	During play, press the Search (◀◀ or ▶▶) button and press again to search at a faster speed. Allows you to search at a faster speed in an AVI file. (2X, 4X, 8X)
Slow Motion Play	Allows you to search at a slower speed in an AVI file. (1/2X, 1/4X, 1/8X)
Step Motion Play	Each time the **STEP** button is pressed, a new frame will appear.
ZOOM	2X/4X/2X/Normal in order

■ These functions may not work depending on MPEG4 file.

Support	
Option	**Description**
MPEG4 Playback	■ **CD-R AVI file** This unit can play the following video compression formats within the AVI file format: – DivX 3.11 contents – DivX 4 contents (Based on MPEG-4 Simple Profile) – DivX 5 contents (MPEG-4 simple profile plus additional features such as bi-directional frames. Qpel and GMC are also supported.) – XviD MPEG-4 compliant Contents. ■ **DVD-RW & DVD+R** Format that support for DivX file : – Basic DivX format DivX3.11 / 4.12/ 5.x – Xvid (MPEG-4 compliant video codec) and DivX Pro – File format : *.avi, *.div, *.divx. Possible warning messages that may appear when trying to play DivX/AVI files are : **1.** No Authorization – File with bad registration code. **2.** Unsupported Codec – Files with certain Codec Types, Versions (ex. MP4, AFS and other proprietary codecs) are not suppoerted by this player. **3.** Unsupported Resolution – Files containing resolutions higher than the player's specification are not supported.

■ The resolution that can be supported by DVD- 1080P9 model up to 720 x 480 @30 frames/ 720 x 576 @25 frames

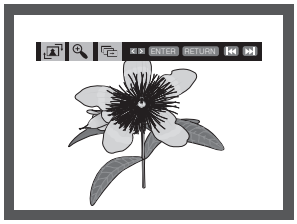
■ This unit supports CD-R/RW written in MPEG4 in accordance with the 'ISO9660 format".

This unit supports all resolutions up to maximum below.

DivX3.11 & DivX4 & XviD	DivX5
Bit rate may fluctuate: Device may skip decoding the high bit rate portions and begin decoding again when Bit rate returns to normal.	720 x 480 @30fps 720 x 576 @25fps : Maximum bit rate : 4Mbps

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX,Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

Support	
Option	**Description**
Picture CD Playback	**1.** Select the desired folder. **2.** Press the ▲ / ▼ buttons to select a Picture file in the clips menu and then press the **ENTER** button. **3.** Press the **INFO** button on the remote control to select the menu you want to view and then press the **ENTER** button. ■ **CD-R JPEG Disc** – Only files with the ".jpg" and ".JPG" extensions can be played. – If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played. – Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played. – The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +). – Only a consecutively written multi-session disc can be played. If there is a blank segment in the multi-session disc, the disc can be played only up to the blank segment. – A maximum of 500 images can be stored on a single CD. - Kodak Picture CDs are recommended. – When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played. – Kodak Picture CD: The JPEG files in the pictures folder can be played automatically. – Konica Picture CD: If you want to see the Picture, select the JPEG files in the clips menu. – Fuji Picture CD: If you want to see the Picture, select the JPEG files in the clips menu. – QSS Picture CD: The unit may not play QSS Picture CD. – If the number of files in 1 Disc is over 500, only 500 JPEG files can be played. – If the number of folders in 1 Disc is over 500, only JPEG files in 500 folders can be played



Rotation		Each time the **ENTER** button is pressed, the picture rotates 90 degrees clockwise.
Zoom		Press the ▲ / ▼ buttons to select the part of the screen you want to zoom in on. Press the **ENTER** button. Each time the **ENTER** button is pressed, the picture is enlarged up to 2X.
Slide Show		The unit enters slide show mode.
	Before beginning the Slide Show, the picture interval must be set.	
		When this icon is selected and **ENTER** is pressed, the pictures change automatically with about a 6 second interval.
		The pictures change automatically with about a 12 second interval.
		The pictures change automatically with about a 18 second interval.

■ Press the STOP button to return to the clips --menu.
■ When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

■ Depending on a file size, the amount of time between each picture may be different from the manual.
■ If you don't press any button, the slide show will start automatically in about 10 seconds by default.

Changing setup menu

Support	
Option	**Description**
Language Setup	Setup of the Language. ❑ **Disc Menu** Use the Menu preference menu to select the language you want a DVD's disc menu to be display in. – If the selected language is not recorded on the disc, the original pre-reordered language is selected. ❑ **Audio** Use the Audio preference menu to select the sound-track language. – Select 'Original' if you want the default sound-track language to be the original language the disc is recorded in. – If the selected language is not recorded on the disc, the original pre-reordered language is selected. ❑ **Subtitle** Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in. – Selec t 'Automatic' if you want the default sound-track language to be the original language the disc is recorded in. – Some disc may not contain the language you select as your initial language; in that case the disc will use its original language setting. ❑ **DivX Subtitle** Use the DivX Subtitle preference menu to select the language the disc's subtitles are to be displayed in. – The language is selected and the screen returns to Language Setup Menu.
Parental Setup	The Parental Setup works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. ❑ **Rating Level** There are up to 8 rating levels on a disc. – If you select up to Level 6, discs that contain Level 7, 8 will no play. ❑ **Change Password** Enter your password then press the **ENTER** button. Enter your new password then press the **ENTER** button. – By default, password is set to 0-0-0-0. – If you forgot password, press Blue (▶▶|) button (on the fron panel) for more than 5 seconds with no disc in the player. All setting will revert to factory settings.
DivX(R) Registration	Please use the Registration code to register this player with the DivX(R) Video On Demand format. To learn more go to www.divx.com/vod.
Screen Messages	Use to turn on-screen messages **On** or **Off**.

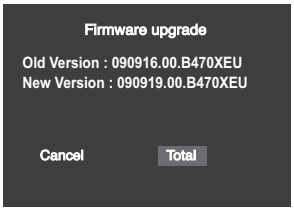
■ To make the **Language Setup** menu disappear, press the **GUIDE (DVD MENU)** or **EXIT** button.

■ By default, password is set to 0-0-0-0.

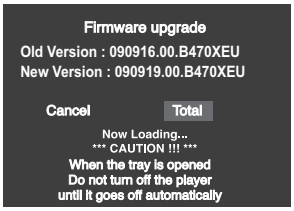
■ If you forgot password, press Blue (▶▶|) button (on the fron panel) for more than 5 seconds with no disc in the player. All setting will revert to factory settings.

Support	
Option	**Description**
Firmware upgrade	■ **Introduction** Samsung will often support the software upgrade to improve the performance of this unit to the latest status, through Samsung Internet Site (www.samsung. com). Because the specially new mpeg4 codec continues and is on-going, any improvements that are made depend on the upgrade software you are using as well as the software that your DVD-player contained before the upgrade. ■ **How to make an upgrade disc** Write the downloaded file onto a blank CD-R or CDRW disc, using the following settings: **1.** You have to download a new file through Download Centre of Samsung Internet Site (www.samsung.com). **2.** Write the file to Disc using CD-RW of your computer. ■ **Upgrade procedure** **1.** Open the disc tray. Place the disc on the tray. Close the tray. The Firmware upgrade screen appears. **2.** Press the ◄ / ► buttons to select **Total**, then press the **ENTER** ↵ button. – In the middle of the writing, the tray will open automatically. After taking out the disc, please wait for about 2 minutes. – If the unit was succesfully updated, the unit will turn off, and on, after closing the tray automatically. When the unit turns on, this screen will display. ■ If the 'Select Menu Language' doesn't appear, please contact to 'Samsung Service Center". ■ The upgrade procedure may change, refer to the web site (www.samsung.com).

■ File System CD-ROM ISO Level / Character set ISO 9660 / Finalized, single session / Write speed low



Firmware upgrade appears on the display



Firmware upgrade starts

Other Information

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the Teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

■ For Teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

❶ (exit)
Exit from the Teletext display.

❷ (mode)
Press to select the Teletext mode (LIST/ FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save Teletext page into list using the (store) button.

❸ (reveal)
Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❹ (size)
Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ (store)
Used to store the Teletext pages.

❻ Colour buttons (red/green/yellow/blue)
If the FASTEXT system is used by a broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

❼ /(Teletext on/mix)
Press to activate Teletext mode after selecting the channel providing the Teletext service. Press it twice to overlap the Teletext with the current broadcasting screen.

❽ (sub-page)
Used to display the available sub-page.

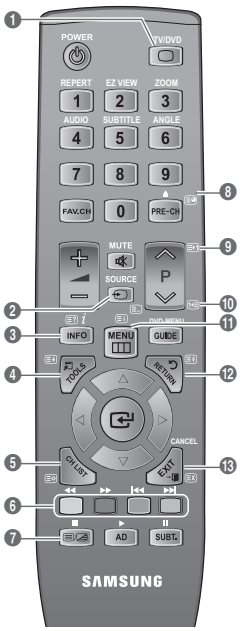
❾ (page up)
Used to display the next Teletext page.

❿ (page down)
Used to display the previous Teletext page.

⓫ (index)
Used to display the index (contents) page at any time while you are viewing Teletext.

⓬ (hold)
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

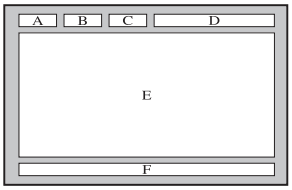
⓭ (cancel)
Used to display the broadcast when searching for a page.



■ You can change Teletext pages by pressing the numeric buttons on the remote control.

The Teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)
- Teletext level supported by the TV is version 2.5 which is capable of displaying additional graphics or text.
- Depending upon the transmission, blank side panels can occur when displaying Teletext.
- In these cases, additional graphics or text is not transmitted.
- Older TV's which do not support version 2.5 are not capable of displaying any additional graphics or text, regardless of the Teletext transmission.
- Teletext 16:9, picture is 16:9.

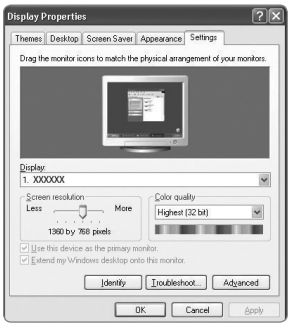
- Press the **TV** button to exit from the Teletext display.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialogbox will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.
   - The correct size setting (resolution) - Optimum: 1360 X 768 pixels.
   - If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.



Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed on the next page, the screen image has been optimized during manufacturing.

D-Sub and HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
VESA CVT	720 x 576	35.910	59.950	32.750	-/+
	1280 x 720	44.772	59.855	74.500	-/+
	1280 x 720	56.456	74.777	95.750	-/+
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.500	75.000	31.500	-/-
	640 x 480	37.861	72.809	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	800 x 600	48.077	72.188	50.000	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1360 x 768	47.712	60.015	85.500	+/+
VESA GTF	1280 x 720	52.500	70.000	89.040	-/+

- When using an HDMI / DVI cable connection, you must use the **HDMI/PC IN [HDMI(DVI)]** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.

Troubleshooting

If you have any questions of TV, first refer to this list. If none of these troubleshooting tips apply, please visit 'www.samsung.com' site, then click on Support or contact Call Centre on list of last page.

Issue	Solution
Picture Quality	First of all, please perform the **Picture Test** to confirm that your TV is properly displaying test image. ● Go to **MENU** - **Support - Self Diagnosis - Picture Test** If the test image is properly displayed, the poor picture may caused by the source or signal.
TV image does not look as good as it did in the store.	● If you have an analogue Cable/Set top box, upgrade to an Box. Use HDMI cable to deliver HD picture quality. ● Cable/Satellite subscriber : Try HD(High Definition) stations from channel line up. ● Antenna connection: Try HD stations after performing Auto programme. ■ Many HD channels are upscaled from SD(Standard Definition) contents. ● Adjust Cable/Set top box video output resolution to 1080i or 720p. ● Confirm that you are watching the TV at the minimum distance recomended based on the size and definition of the signal you are displaying.
Picture is distorted : macroblock, small block, dots, pixelization	● Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. ● Low signal level or bad quality can cause picture distortion. This is not a TV issue.
Poor colour or brightness.	● Adjust **Picture** options in the TV menu. (**Picture** mode, **Colour, Brightness, Sharpness**) ● Adjust **Energy Saving** option in **Setup** menu. ● Try picture reset to view the default picture setting. (Go to **MENU - Picture - Picture Reset**)
Dotted line on the edge of screen.	● If picture size is set to **Screen Fit**, change to **16:9**. ● Change cable/set top box resolution.
Picture is black and white with AV (Composite) input only.	● Connect video cable(Yellow) to Green jack of component input 1 of the TV.
Picture freezes or is distorted when changing channels or picture is delayed.	● If connected with cable box, please try to reset cable box. (reconnect AC cord and wait until cable box reboots. It may take up to 20 minutes.) ● Set output resolution of cable box to 1080i or 720p.
Sound Quality	First of all, please perform the **Sound Test** to confirm that your TV audio is properly operating. ● Go to **MENU - Support - Self Diagnosis - Sound Test** If the audio is OK, the sound problem may caused by the source or signal.
No sound or sound is too low at maximum volume.	● Please check the volume of external device connected to your TV then, adjust the TV volume accordingly.
Picture is good but no sound.	● Set the Speaker Select option to TV speaker in the sound menu. ● Make sure audio cables from an external device are connected to correct audio input jacks on the TV. ● Check connected device's audio output option. (ex: You may need to change your cable box' audio option to HDMI when you have HDMI connected to your TV.) ● If you are using a DVI to HDMI cable, a separate audio cable is required. ● Deactivate SRS function if you are setting the volume over 30 value. ● Remove plug from headphone jack. (if available on your TV)
Noise from speaker.	● Check cable connections. Make sure a video cable is not connected to an audio input. ● For Antenna/Cable connection, check signal strength. Low signal level may cause sound distortion.

Issue	Solution
No Picture, No Video	
TV won't turn on.	● Make sure the AC power cord is plugged in securely to the wall outlet and the TV. ● Make sure the wall outlet is working. ● Try pressing the **POWER** button on the TV to make sure the remote is working properly. If the TV turns on, it may be caused by Remote Control. To fix the Remote problem, refer to 'Remote control does not work' below
TV turns off automatically.	● Check if the **Sleep Timer** is set to **On** in the **Setup** menu. ● If connected the TV to your PC, check your PC power settings. ● Make sure the AC power cord is plugged in securely to the wall outlet and the TV. ● If there is no signal for about 10 ~ 15 minutes with Antenna/Cable connection, the TV will turn off.
No picture/Video.	● Check cable connections.(remove and reconnect all cables of TV and external devices) Set your external device's (Cable/Set top Box, DVD, Blu-ray etc) video output to match the connections to the TV input. For example, external device's output: HDMI, TV's input: HDMI. ● Make sure your connected device is powered on. ● Make sure to select the TV's correct source by pressing the **SOURCE** button on the TV remote.
RF(Cable/Antenna) Connection	
Cannot receive all channels.	● Make sure Antenna cable is connected securely. ● Please try **Plug & Play** to add available channels to the channel list. Go to **MENU** - **Setup** - **Plug & Play** and wait for all avaiable channels are stored. ● Verify Antenna is positioned correctly.
Picture is distorted: macroblock, small block, dots, pixelization	● Compression of video contents may cause picture distortion especially on fast moving pictures such as sports and action movies. ● Low signal level can cause picture distortion. This is not a TV issue.
PC Connection	
'Not Supported Mode' message.	● Set your PC's output resolution and frequency so it matches the resolutions supported by the TV.
PC is always shown on source list even if not connected.	● This is normal; PC is always shown on the source list even though a PC is not connected.
Video is OK but there is no audio with HDMI connection.	● Check the audio output setting on your PC.

Issue	Solution
Others	
Picture is not shown in full screen.	● Black bars on each side will be shown on HD channels when displaying upscaled SD (4:3) contents. ● Black bars on Top & Bottom will be shown on movies that have aspect ratios different from your TV. ● Adjust picture size option on your external device or TV to full screen.
Remote control does not work.	● Replace the remote control batteries with correct polarity (+ -). ● Clean the transmission window located on the top of the remote. ● Try pointing the remote directly at the TV from 5~6 feet away.
Can not control TV power or volume with Cable/Set top box remote control.	● Programme the Cable/Set top box remote control to operate the TV. Refer to Cable/Sat user manual for SAMSUNG TV code.
'Not Supported Mode' message.	● Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Plastic smell from TV.	● This smell is normal and will dissipate over time.
TV **Signal Information** is unavailable in the Self Diagnostic Test menu.	● This function is only available with digital channels with an Antenna (RF/Coax) connection.
TV is tilted to right or left side.	● Remove the stand base from TV and reassemble.
Can not assemble stand base.	● Make sure TV is placed on flat surface. If can not remove screws from TV, please use magnetized screw driver.
Channel menu is grey out. (unavailable)	● **Channel** menu is only available when TV source is selected.
Your settings are lost after 30 minutes or every time TV is turned off.	● If TV is in the **Store Demo** mode, it will reset audio and picture settings every 30 minutes. Please change from **Store Demo** mode to **Home Use** mode in the Plug & Play procedure. Press the **SOURCE** button to select TV mode, go to **MENU** → **Setup** → **Plug & Play** → **ENTER** ↵.
Intermittent loss of audio or video.	● Check cable connections and reconnect. ● Can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If wall mounting, we recommend using cables with 90 degree connectors.
You may see small particles if you look closely at the edge of the bezel surrounding the TV screen.	● This is part of the product's design and is not a defect.
'Scramble signal' or 'Weak Signal/No Signal' with CAM CARD(CI).	● Check that CAM has CI Card installed into the common interface slot. ● Pull out CAM from the TV and insert into the slot again.
When turned off and 45 minutes later, TV is turned on itself.	● It is normal, the TV operate OTA (Over The Air) function itself to upgrade firmware downloaded during watching.
Recurrent picture/sound issue.	● Check and change signal/source.

■ This TFT LCD panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Specifications

Model Name	LE22B470
Screen Size (Diagonal)	22 inches
Power Consumption Standby	<1W
PC Resolution (Optimum)	1360 x 768 @ 60Hz
Sound (Output)	3W X 2
Dimensions (WxDxH) Body With stand	 557.8 x 104.6 x 384.2 mm 557.8 x 171.9 x 422.9 mm
Weight With Stand	5.3 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing
Stand Swivel Left / Right	0˚

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.
- This product is designed for domestic use only and cannot be purchased for commercial use.

Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

CAUTION	
RISK OF ELECTRIC SHOCK DO NOT OPEN	This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.	This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.
  This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service centre.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures,high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service centre.

WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE
The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.
Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitably approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.
Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE - NEUTRAL BROWN - LIVE
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:
DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

Warranty Card

UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0845 SAMSUNG (7267864) (UK & Northern Ireland)
Tel: 0818 717 100 (EIRE Only)
Fax: +44 0845 650 8080
Web : www.samsung.com

WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.

2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.

3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.

4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured.

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Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

[English]

Les bons gestes de mise au rebut de ce produit (Déchets d'équipements électriques et électroniques)

(Applicable dans les pays de l'Union Européenne et dans d'autres pays européens pratiquant le tri sélectif)
Ce symbole sur le produit, ses accessoires ou sa documentation indique que ni le produit, ni ses accessoires électroniques usagés (chargeur, casque audio, câble USB, etc.) ne peuvent être jetés avec les autres déchets ménagers. La mise au rebut incontrôlée des déchets présentant des risques environnementaux et de santé publique, veuillez séparer vos produits et accessoires usagés des autres déchets. Vous favoriserez ainsi le recyclage de la matière qui les compose dans le cadre d'un développement durable. Les particuliers sont invités à contacter le magasin leur ayant vendu le produit ou à se renseigner auprès des autorités locales pour connaître les procédures et les points de collecte de ces produits en vue de leur recyclage. Les entreprises et professionnels sont invités à contacter leurs fournisseurs et à consulter les conditions de leur contrat de vente. Ce produit et ses accessoires ne peuvent être jetés avec les autres déchets professionnels et commerciaux.

[Français]

Korrekte Entsorgung von Altgeräten (Elektroschrott)

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem)
Die Kennzeichnung auf dem Produkt, Zubehörteilen bzw. auf der dazugehörigen Dokumentation gibt an, dass das Produkt und Zubehörteile (z. B. Ladegerät, Kopfhörer, USB-Kabel) nach ihrer Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden dürfen. Entsorgen Sie dieses Gerät und Zubehörteile bitte getrennt von anderen Abfällen, um der Umwelt bzw. der menschlichen Gesundheit nicht durch unkontrollierte Müllbeseitigung zu schaden. Helfen Sie mit, das Altgerät und Zubehörteile fachgerecht zu entsorgen, um die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern. Private Nutzer wenden sich an den Händler, bei dem das Produkt gekauft wurde, oder kontaktieren die zuständigen Behörden, um in Erfahrung zu bringen, wo Sie das Altgerät bzw. Zubehörteile für eine umweltfreundliche Entsorgung abgeben können. Gewerbliche Nutzer wenden sich an ihren Lieferanten und gehen nach den Bedingungen des Verkaufsvertrags vor. Dieses Produkt und elektronische Zubehörteile dürfen nicht zusammen mit anderem Gewerbemüll entsorgt werden.

[Deutsch]

Correcte verwijdering van dit product (elektrische & elektronische afvalapparatuur)

Dit merkteken op het product, de accessoires of het informatiemateriaal duidt erop dat het product en zijn elektronische accessoires (bv. lader, headset, USB-kabel) niet met ander huishoudelijk afval verwijderd mogen worden aan het einde van hun gebruiksduur. Om mogelijke schade aan het milieu of de menselijke gezondheid door ongecontroleerde afvalverwijdering te voorkomen, moet u deze artikelen van andere soorten afval scheiden en op een verantwoorde manier recyclen, zodat het duurzame hergebruik van materiaalbronnen wordt bevorderd. Huishoudelijke gebruikers moeten contact opnemen met de winkel waar ze dit product hebben gekocht of met de gemeente waar ze wonen om te vernemen waar en hoe ze deze artikelen milieuvriendelijk kunnen laten recyclen. Zakelijke gebruikers moeten contact opnemen met hun leverancier en de algemene voorwaarden van de koopovereenkomst nalezen. Dit product en zijn elektronische accessoires mogen niet met ander bedrijfsafval voor verwijdering worden gemengd.

[Nederlands]

Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici)

(Applicabile nell'Unione Europea e in altri paesi europei con sistema di raccolta differenziata)
Il marchio riportato sul prodotto, sugli accessori o sulla documentazione indica che il prodotto e i relativi accessori elettronici (quali caricabatterie, cuffia e cavo USB) non devono essere smaltiti con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare il prodotto e i suddetti accessori da altri tipi di rifiuti e di riciclarli in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali. Gli utenti domestici sono invitati a contattare il rivenditore presso il quale è stato acquistato il prodotto o l'ufficio locale preposto per tutte le informazioni relative alla raccolta differenziata e al riciclaggio per questo tipo di materiali. Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto e i relativi accessori elettronici non devono essere smaltiti unitamente ad altri rifiuti commerciali.

[Italiano]

Eliminación correcta de este producto (Residuos de aparatos eléctricos y electrónicos)

(Aplicable en la Unión Europea y en países europeos con sistemas de recogida selectiva de residuos)
La presencia de este símbolo en el producto, accesorios o material informativo que lo acompañan, indica que al finalizar su vida útil ni el producto ni sus accesorios electrónicos (como el cargador, cascos, cable USB) deberán eliminarse junto con otros residuos domésticos. Para evitar los posibles daños al medio ambiente o a la salud humana que representa la eliminación incontrolada de residuos, separe estos productos de otros tipos de residuos y recíclelos correctamente. De esta forma se promueve la reutilización sostenible de recursos materiales. Los usuarios particulares pueden contactar con el establecimiento donde adquirieron el producto o con las autoridades locales pertinentes para informarse sobre cómo y dónde pueden llevarlo para que sea sometido a un reciclaje ecológico y seguro. Los usuarios comerciales pueden contactar con su proveedor y consultar las condiciones del contrato de compra. Este producto y sus accesorios electrónicos no deben eliminarse junto a otros residuos comerciales.

[Español]

Eliminação Correcta Deste Produto (Resíduos de Equipamentos Eléctricos e Electrónicos)

Esta marca apresentada no produto, nos acessórios ou na literatura – indica que o produto e os seus acessórios electrónicos (por exemplo, o carregador, o auricular, o cabo USB) não deverão ser eliminados juntamente com os resíduos domésticos no final do seu período de vida útil. Para impedir danos ao ambiente ou à saúde humana causados pela eliminação incontrolada de resíduos, deverá separar estes equipamentos de outros tipos de resíduos e reciclá-los de forma responsável, para promover uma reutilização sustentável dos recursos materiais. Os utilizadores domésticos deverão contactar o estabelecimento onde adquiriram este produto ou as entidades oficiais locais para obterem informações sobre onde e de que forma podem entregar estes equipamentos para permitir efectuar uma reciclagem segura em termos ambientais. Os utilizadores profissionais deverão contactar o seu fornecedor e consultar os termos e condições do contrato de compra. Este produto e os seus acessórios electrónicos não deverão ser misturados com outros resíduos comerciais para eliminação.

[Português]

Ustrezno odstranjevanje tega izdelka (odpadna električna in elektronska oprema)

Oznaka na izdelku, dodatni opremi ali dokumentaciji pomeni, da izdelka in njegove elektronske dodatne opreme (npr. električni polnilnik, slušalke, kabel USB) ob koncu dobe uporabe ni dovoljeno odvreči med gospodinjske odpadke. Te izdelke ločite od drugih vrst odpadkov in jih odgovorno predajte v recikliranje ter tako spodbudite trajnostno vnovično uporabo materialnih virov. Tako boste preprečili morebitno tveganje za okolje ali zdravje ljudi zaradi nenadzoro vanega odstranjevanja odpadkov. Uporabniki v gospodinjstvih naj se za podrobnosti o tem, kam in kako lahko te izdelke predajo v okolju prijazno recikliranje, obrnejo na trgovino, kjer so izdelek kupili, ali na krajevni upravni organ. Poslovni uporabniki naj se obrnejo na dobavitelja in preverijo pogoje kupne pogodbe. Tega izdelka in njegove elektronske dodatne opreme pri odstranjevanju ni dovoljeno mešati z drugimi gospodarskimi odpadki.

[Slovenščina]

Korrekt avfallshantering av produkten (elektriska och elektroniska produkter)

Denna markering på produkten, tillbehören och i manualen anger att produkten och de elektroniska tillbehören (t.ex. laddare, headset, USB-kabel) inte bör sorteras tillsammans med annat hushållsavfall när de kasseras. Till förebyggande av skada på miljö och hälsa bör dessa föremål hanteras separat för ändamålsenlig återvinning av beståndsdelarna. Hushållsanvändare bör kontakta den återförsäljare som sålt produkten eller sin kommun för vidare information om var och hur produkten och tillbehören kan återvinnas på ett miljösäkert sätt. Företagsanvändare bör kontakta leverantören samt verifiera angivna villkor i köpekontraktet. Produkten och de elektroniska tillbehören bör inte hanteras tillsammans med annat kommersiellt avfall.

[Svenska]

Korrekt affaldsbortskaffelse af dette produkt (elektrisk & elektronisk udstyr)

Mærket på dette produkt, på tilbehør eller i den medfølgende dokumentation betyder, at produktet og elektronisk tilbehør hertil (f.eks. oplader, hovedsæt, USB-ledning) ikke må bortskaffes sammen med almindeligt husholdningsaffald efter endt levetid. For at undgå skadelige miljø- eller sundhedspåvirkninger på grund af ukontrolleret affaldsbortskaffelse skal ovennævnte bortskaffes særskilt fra andet affald og indleveres behørigt til fremme for bæredygtig materialegenvinding. Forbrugere bedes kontakte forhandleren, hvor de har købt produktet, eller kommunen for oplysning om, hvor og hvordan de kan indlevere ovennævnte med henblik på miljøforsvarlig genvinding. Virksomheder bedes kontakte leverandøren og læse betingelserne og vilkårene i købekontrakten. Dette produkt og elektronisk tilbehør hertil bør ikke bortskaffes sammen med andet erhvervsaffald.

[Dansk]

Korrekt avhending av dette produktet (Avfall fra elektrisk og elektronisk utstyr)

Denne merkingen som vises på produktet, dets tilbehør eller dokumentasjon, indikerer at produktet eller det elektroniske tilbehøret (for eksempel lader, headset, USB-kabel) ikke skal kastes sammen med annet husholdningsavfall ved slutten av levetiden. For å hindre potensiell skade på miljøet eller helseskader grunnet ukontrollert avfallsavhending ber vi om at dette avfallet holdes adskilt fra andre typer avfall og resirkuleres på ansvarlig måte for å fremme bærekraftig gjenbruk av materielle ressurser. Private forbrukere bør kontakte enten forhandleren de kjøpte produktet av, eller lokale myndigheter, for detaljer om hvor og hvordan disse artiklene kan resirkuleres på en miljøvennlig måte. Forretningsbrukere bør kontakte sin leverandør og undersøke vilkårene i kjøpskontrakten. Dette produktet og det elektroniske tilbehøret skal ikke blandes med annet kommersielt avfall som skal kastes.

[Norsk]

Tuotteen turvallinen hävittäminen (elektroniikka ja sähkölaitteet)

Oheinen merkintä tuotteessa, lisävarusteissa tai käyttöohjeessa merkitsee, että tuotetta tai lisävarusteina toimitettavia sähkölaitteita (esim. laturia, kuulokkeita tai USB kaapelia) ei saa hävittää kotitalousjätteen mukana niiden käyttöiän päätyttyä. Virheellisestä jätteenkäsittelystä ympäristölle ja terveydelle aiheutuvien haittojen välttämiseksi tuote ja lisävarusteet on eroteltava muusta jätteestä ja kierrätettävä kestävän kehityksen mukaista uusiokäyttöä varten. Kotikäyttäjät saavat lisätietoja tuotteen ja lisävarusteiden turvallisesta kierrätyksestä ottamalla yhteyttä tuotteen myyneeseen jälleenmyyjään tai paikalliseen ympäristöviranomaiseen. Yrityskäyttäjien tulee ottaa yhteyttä tavarantoimittajaan ja selvittää hankintasopimuksen ehdot. Tuotetta tai sen lisävarusteita ei saa hävittää muun kaupallisen jätteen seassa.

[Suomi]

A termék hulladékba helyezésének módszere(WEEE – Elektromos és elektronikus berendezések hulladékai)

Ez a jelzés a terméken, tartozékain vagy dokumentációján arra utal, hogy hasznos élettartama végén a terméket és elektronikus tartozékait (pl. töltőegység, fejhallgató, USB kábel) nem szabad a háztartási hulladékkal együtt kidobni. A szabálytalan hulladékba helyezés által okozott környezet- és egészségkárosodás megelőzése érdekében ezeket a tárgyakat különítse el a többi hulladéktól, és felelősségteljesen gondoskodjon az újrahasznosításukról az anyagi erőforrások fenntartható újrafelhasználásának elősegítése érdekében. A háztartási felhasználók a termék forgalmazójától vagy a helyi önkormányzati szervektől kérjenek tanácsot arra vonatkozóan, hová és hogyan vihetik el az elhasznált termékeket a környezetvédelmi szempontból biztonságos újrahasznosítás céljából. Az üzleti felhasználók lépjenek kapcsolatba beszállítójukkal, és vizsgálják meg az adásvételi szerződés feltételeit. Ezt a terméket és tartozékait nem szabad az egyéb közületi hulladékkal együtt kezelni.

[Magyar]

Prawidłowe usuwanie produktu (zużyty sprzęt elektryczny i elektroniczny)

To oznaczenie umieszczone na produkcie, akcesoriach lub dokumentacji oznacza, że po zakończeniu eksploatacji nie należy tego produktu ani jego akcesoriów (np. ładowarki, zestawu słuchawkowego, przewodu USB) wyrzucać wraz ze zwykłymi odpadami gospodarstwa domowego. Aby uniknąć szkodliwego wpływu na środowisko naturalne i zdrowie ludzi wskutek niekontrolowanego usuwania odpadów, prosimy o oddzielenie tych przedmiotów od odpadów innego typu oraz o odpowiedzialny recykling i praktykowanie ponownego wykorzystania materiałów. W celu uzyskania informacji na temat miejsca i sposobu bezpiecznego dla środowiska recyklingu tych przedmiotów, użytkownicy w gospodarstwach domowych powinni skontaktować się z punktem sprzedaży detalicznej, w którym dokonali zakupu produktu, lub z organem władz lokalnych. Użytkownicy w firmach powinni skontaktować się ze swoim dostawcą i sprawdzić warunki umowy zakupu. Produktu ani jego akcesoriów nie należy usuwać razem z innymi odpadami komercyjnymi.

[Polski]

Σωστή Απόρριψη αυτού του Προϊόντος (Απόβλητα Ηλεκτρικού & Ηλεκτρονικού Εξοπλισμού)

(Ισχύει για την Ευρωπαϊκή Ένωση και για άλλες ευρωπαϊκές χώρες με χωριστά συστήματα συλλογής) Αυτό το σήμα που εμφανίζεται επάνω στο προϊόν, στα εξαρτήματά του ή στα εγχειρίδια που το συνοδεύουν, υποδεικνύει ότι το προϊόν και τα ηλεκτρονικά του εξαρτήματα (π.χ. φορτιστής, ακουστικά, καλώδιο USB) δεν θα πρέπει να ρίπτονται μαζί με τα υπόλοιπα οικιακά απορρίμματα μετά το τέλος του κύκλου ζωής τους. Προκειμένου να αποφευχθούν ενδεχόμενες βλαβερές συνέπειες στο περιβάλλον ή την υγεία εξαιτίας της ανεξέλεγκτης διάθεσης απορριμμάτων, σας παρακαλούμε να διαχωρίσετε αυτά τα προϊόντα από άλλους τύπους απορριμμάτων και να τα ανακυκλώσετε, ώστε να βοηθήσετε στην βιώσιμη επαναχρησιμοποίηση των υλικών πόρων. Οι οικιακοί χρήστες θα πρέπει να έλθουν σε επικοινωνία είτε με το κατάστημα απ' όπου αγόρασαν αυτό το προϊόν, είτε με τις κατά τόπους υπηρεσίες, προκειμένου να πληροφορηθούν τις λεπτομέρειες σχετικά με τον τόπο και τον τρόπο με τον οποίο μπορούν να δώσουν αυτά τα προϊόντα για ασφαλή προς το περιβάλλον ανακύκλωση. Οι επιχειρήσεις-χρήστες θα πρέπει να έλθουν σε επαφή με τον προμηθευτή τους και να ελέγξουν τους όρους και τις προϋποθέσεις του συμβολαίου αγοράς. Αυτό το προϊόν και τα ηλεκτρονικά του εξαρτήματα δεν θα πρέπει να αναμιγνύονται με άλλα συνηθισμένα απορρίμματα προς διάθεση.

[Ελληνικά]

Правилно третиране на изделието след края на експлоатационния му живот

(Отпадъци, представляващи електрическо и електронно оборудване)(Важи за държавите на Европейския съюз и други европейски държави със системи за разделно сметосъбиране)

Този знак, поставен върху изделието, негови принадлежности или печатни материали, означава, че продуктът и принадлежностите (например зарядно устройство, слушалки, USB кабел) не бива да се изхвърлят заедно с другите битови отпадъци, когато изтече експлоатационният му живот. Отделяйте тези устройства от другите видови отпадъци и ги предавайте за рециклиране. Спазвайки това правило не излагате на опасност здравето на други хора и предпазвате околната среда от замърсяване, предизвикано от безконтролно изхвърляне на отпадъци. Освен това, подобно отговорно поведение създава възможност за повторно (екологично съобразно) използване на материалните ресурси. Домашните потребители трябва да се свържат с търговеца на дребно, от когото са закупили изделието, или със съответната местна държавна агенция, за да получат подробни инструкции къде и кога могат да занесат тези устройства за рециклиране, безопасно за околната среда. Корпоративните потребители следва да се свържат с доставчика си и да проверят условията на договора за покупка. Това изделие и неговите електронни принадлежности не бива да се сместват с другите отпадъци на търговското предприятие.

[Български]

Správná likvidace výrobku (Elektrický a elektronický odpad)

Toto označení na výrobku, jeho příslušenství nebo dokumentaci znamená, že výrobek a jeho elektronické příslušenství (například nabíječku, náhlavní sadu, USB kabel) je po skončení životnosti zakázáno likvidovat jako běžný komunální odpad. Možným negativním dopadům na životní prostředí nebo lidské zdraví způsobeným nekontrolovanou likvidací zabráníte oddělením zmíněných produktů od ostatních typů odpadu a jejich zodpovědnou recyklací za účelem udržitelného využívání druhotných surovin. Uživatelé z řad domácností by si měli od prodejce, u něhož produkt zakoupili, nebo u příslušného městského úřadu vyžádat informace, kde a jak mohou tyto výrobky odevzdat k bezpečné ekologické recyklaci. Podnikoví uživatelé by měli kontaktovat dodavatele a zkontrolovat všechny podmínky kupní smlouvy. Tento výrobek a jeho elektronické příslušenství nesmí být likvidován spolu s ostatním průmyslovým odpadem.

[Čeština]

Správna likvidácia tohoto výrobku (Elektrotechnický a elektronický odpad)

(Platné pre Európsku úniu a ostatné európske krajiny so systémom triedeného odpadu)

Toto označenie na výrobku, príslušenstve alebo v sprievodnej brožúre hovorí, že po skončení životnosti by produkt ani jeho elektronické príslušenstvo (napr. nabíjačka, náhlavná súprava, USB kábel) nemali byť likvidované s ostatným domovým odpadom. Prípadnému poškodeniu životného prostredia alebo ľudského zdravia môžete predísť tým, že budete tieto výrobky oddeľovať od ostatného odpadu a vrátite ich na recykláciu. Používatelia v domácnostiach by pre podrobné informácie, ako ekologicky bezpečne naložiť s týmito výrobkami, mali kontaktovať buď predajcu, ktorý im ich predal, alebo príslušný úrad v mieste ich bydliska. Priemyselní používatelia by mali kontaktovať svojho dodávateľa a preveriť si podmienky kúpnej zmluvy. Tento výrobok a ani jeho elektronické príslušenstvo by nemali byť likvidované spolu s ostatným priemyselným odpadom.

[Slovensky]

Cum se elimină corect acest produs (Deşeuri de echipamente electrice şi electronice)

(Aplicabil în ţările Uniunii Europene şi în alte ţări cu sisteme de colectare selectivă)

Acest simbol de pe produs, accesorii şi documentaţie indică faptul că produsul şi accesoriile sale electronice (încărcător, căşti, cablu USB) nu trebuie eliminate împreună cu alte deşeuri menajere la finalul duratei lor de utilizare. Dat fiind că eliminarea necontrolată a deşeurilor poate dăuna mediului înconjurător sau sănătăţii umane, vă rugăm să separaţi aceste articole de alte tipuri de deşeuri şi să le reciclaţi în mod responsabil, promovând astfel reutilizarea durabilă a resurselor materiale. Utilizatorii casnici trebuie să-l contacteze pe distribuitorul care le-a vândut produsul sau să se intereseze la autorităţile locale unde şi cum pot să ducă aceste articole pentru a fi reciclate în mod ecologic. Utilizatorii comerciali trebuie să-şi contacteze furnizorul şi să consulte termenii şi condiţiile din contractul de achiziţie. Acest produs şi accesoriile sale electronice nu trebuie eliminate împreună cu alte deşeuri comerciale.

[Română]

Izstrādājuma pareiza likvidēšana (Attiecas uz nolietotām elektriskām un elektroniskām ierīcēm)

(Spēkā Eiropas Savienībā un pārējās Eiropas valstīs, kas izmanto atkritumu dalītu savākšanu)

Šis uz izstrādājuma un tā piederumiem vai pievienotajā dokumentācijā izvietotais marķējums norāda, ka izstrādājumu un tā elektroniskos piederumus (piem., uzlādes ierīci, austiņas, USB kabeli) pēc ekspluatācijas laika beigām nedrīkst likvidēt kopā ar citiem sadzīves atkritumiem. Lai nepieļautu atkritumu nekontrolētas likvidēšanas radītu varbūtēju kaitējumu videi un cilvēku veselībai, lūdzam minētās ierīces nošķirt no citiem atkritumiem un disciplinēti nodot pienācīgai pārstrādei, tā sekmējot materiālo resursu atkārtotu izmantošanu. Lai uzzinātu, kur un kā minētās ierīces iespējams nodot ekoloģiski drošai pārstrādei, mājsaimniecībām jāsazinās ar izstrādājuma pārdevēju vai savu pašvaldību. Iestādēm un uzņēmumiem jāsazinās ar izstrādājuma piegādātāju un jāiepazīstas ar pirkuma līguma nosacījumiem. Izstrādājumu un tā elektroniskos piederumus nedrīkst nodot likvidēšanai kopā ar citiem iestāžu un uzņēmumu atkritumiem.

[Latviešu]

Tinkamas šio gaminio išmetimas (elektros ir elektroninės įrangos atliekos)

Šis ženklas, pateiktas ant gaminio, jo priedų ar dokumentacijoje, nurodo, kad gaminio ir jo elektroninių priedų (pvz., įkroviklio, ausinių, USB kabelio) negalima išmesti kartu su kitomis buitinėmis atliekomis gaminio naudojimo laikui pasibaigus. Kad būtų išvengta galimos nekontroliuojamo atliekų išmetimo žalos aplinkai arba žmonių sveikatai ir skatinamas aplinką tausojantis antrinių žaliavų panaudojimas, atskirkite šiuos elementus nuo kitų rūšių atliekų ir atiduokite perdirbti. Informacijos kur ir kaip pristatyti šiuos elementus saugiai perdirbti, privatūs vartotojai turėtų kreiptis į parduotuvę, kurioje šį gaminį pirko, arba į vietos valdžios institucijas. Verslo vartotojai turėtų kreiptis į savo tiekėją ir peržiūrėti pirkimo sutarties sąlygas. Tvarkant atliekas, šio gaminio ir jo elektroninių priedų negalima maišyti su kitomis pramoninėmis atliekomis.

[Lietuvių kalba]

Õige viis toote kasutuselt kõrvaldamiseks (elektriliste ja elektrooniliste seadmete jäätmed)

Selline tähistus tootel või selle tarvikutel või dokumentidel näitab, et toodet ega selle elektroonilisi tarvikuid (nt laadija, peakomplekt, USB-kaabel) ei tohi kasutusaja lõppemisel kõrvaldada koos muude olmejäätmetega. Selleks et vältida jäätmete kontrollimatu kõrvaldamisega seotud võimaliku kahju tekitamist keskkonnale või inimeste tervisele ning edendada materiaalsete vahendite säästvat taaskasutust, eraldage need esemed muudest jäätmetest ja suunake need vastutustundlikult taasringlusse. Kodukasutajad saavad teavet nende esemete keskkonnaohutu ringlussevõtu kohta kas toote müüjalt või keskkonnaametist. Firmad peaksid võtma ühendust tarnijaga ning kontrollima ostulepingu tingimusi ja sätteid. Toodet ega selle elektroonilisi tarvikuid ei tohi panna muude hävitamiseks mõeldud kaubandusjäätmete hulka.

[Eesti]

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)
This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment. To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

[English]

Elimination des batteries de ce produit

(Applicable aux pays de l'Union européenne et aux autres pays européens dans lesquels des systèmes de collecte sélective sont mis en place.)
Le symbole sur la batterie, le manuel ou l'emballage indique que les batteries de ce produit ne doivent pas être éliminées en fin de vie avec les autres déchets ménagers. L'indication éventuelle des symboles chimiques Hg, Cd ou Pb signifie que la batterie contient des quantités de mercure, de cadmium ou de plomb supérieures aux niveaux de référence stipulés dans la directive CE 2006/66. Si les batteries ne sont pas correctement éliminées, ces substances peuvent porter préjudice à la santé humaine ou à l'environnement. Afin de protéger les ressources naturelles et d'encourager la réutilisation du matériel, veillez à séparer les batteries des autres types de déchets et à les recycler via votre système local de collecte gratuite des batteries.

[Français]

Korrekte Entsorgung der Batterien dieses Produkts

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Altbatterie-Rücknahmesystem)
Die Kennzeichnung auf der Batterie bzw. auf der dazugehörigen Dokumentation oder Verpackung gibt an, dass die Batterie zu diesem Produkt nach seiner Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden darf. Wenn die Batterie mit den chemischen Symbolen Hg, Cd oder Pb gekennzeichnet ist, liegt der Quecksilber-, Cadmium- oder Blei-Gehalt der Batterie über den in der EG-Richtlinie 2006/66 festgelegten Referenzwerten. Wenn Batterien nicht ordnungsgemäß entsorgt werden, können sie der menschlichen Gesundheit bzw. der Umwelt schaden. Bitte helfen Sie, die natürlichen Ressourcen zu schützen und die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern, indem Sie die Batterien von anderen Abfällen getrennt über Ihr örtliches kostenloses Altbatterie-Rücknahmesystem entsorgen.

[Deutsch]

Correcte behandeling van een gebruikte accu uit dit product

(Van toepassing op de Europese Unie en andere Europese landen met afzonderlijke inzamelingssystemen voor accu's en batterijen.)
Dit merkteken op de accu, handleiding of verpakking geeft aan dat de accu in dit product aan het einde van de levensduur niet samen met ander huishoudelijk afval mag worden weggegooid. De chemische symbolen Hg, Cd of Pb geven aan dat het kwik-, cadmium- of loodgehalte in de accu hoger is dan de referentieniveaus in de Richtlijn 2006/66/EC. Indien de gebruikte accu niet op de juiste wijze wordt behandeld, kunnen deze stoffen schadelijk zijn voor de gezondheid van mensen of het milieu. Ter bescherming van de natuurlijke hulpbronnen en ter bevordering van het hergebruik van materialen, verzoeken wij u afgedankte accu's en batterijen te scheiden van andere soorten afval en voor recycling aan te bieden bij het gratis inzamelingssysteem voor accu's en batterijen in uw omgeving.

[Nederlands]

Corretto smaltimento delle batterie del prodotto

(Applicabile nei paesi dell'Unione Europea e in altri paesi europei con sistemi di conferimento differenziato delle batterie.)
Il marchio riportato sulla batteria o sulla sua documentazione o confezione indica che le batterie di questo prodotto non devono essere smaltite con altri rifiuti domestici al termine del ciclo di vita. Dove raffigurati, i simboli chimici Hg, Cd o Pb indicano che la batteria contiene mercurio, cadmio o piombo in quantità superiori ai livelli di riferimento della direttiva UE 2006/66. Se le batterie non vengono smaltite correttamente, queste sostanze possono causare danni alla salute umana o all'ambiente. Per proteggere le risorse naturali e favorire il riutilizzo dei materiali, separare le batterie dagli altri tipi di rifiuti e riciclarle utilizzando il sistema di conferimento gratuito previsto nella propria area di residenza.

[Italiano]

Eliminación correcta de las baterías de este producto

(Aplicable en la Unión Europea y en otros países europeos con sistemas de recogida selectiva de baterías.)
La presencia de esta marca en las baterías, el manual o el paquete del producto indica que cuando haya finalizado la vida útil de las baterías no deberán eliminarse junto con otros residuos domésticos. Los símbolos químicos Hg, Cd o Pb, si aparecen, indican que la batería contiene mercurio, cadmio o plomo en niveles superiores a los valores de referencia admitidos por la Directiva 2006/66 de la Unión Europea. Si las baterías no se desechan convenientemente, estas sustancias podrían provocar lesiones personales o dañar el medioambiente. Para proteger los recursos naturales y promover el reciclaje, separe las baterías de los demás residuos y recíclelas mediante el sistema de recogida gratuito de su localidad.

[Español]

Eliminação correcta das baterias existentes neste produto

(Aplicável na União Europeia e noutros países europeus com sistemas de recolha de baterias separados.)
Esta marca, apresentada na bateria, manual ou embalagem, indica que as baterias existentes neste produto não devem ser eliminadas juntamente com os resíduos domésticos indiferenciados no final do seu período de vida útil. Onde existentes, os símbolos químicos Hg, Cd ou Pb indicam que a bateria contém mercúrio, cádmio ou chumbo acima dos níveis de referência indicados na Directiva CE 2006/66. Se as baterias não forem correctamente eliminadas, estas substâncias poderão ser prejudiciais para a saúde humana ou para o meio ambiente. Para proteger os recursos naturais e promover a reutilização dos materiais, separe as baterias dos outros tipos de resíduos e recicle-as através do sistema gratuito de recolha local de baterias.

[Português]

Ustrezno odstranjevanje baterij v tem izdelku

(Uporabno v EU in ostalih evropskih državah s sistemi ločenega odstranjevanja baterij)
Ta oznaka na bateriji, v navodilih ali na embalaži pomeni, da baterij ob izteku njihove življenjske dobe v tem izdelku ne smete odstraniti skupaj z ostalimi gospodinjskimi odpadki. Oznake za kemijske elemente Hg, Cd ali Pb pomenijo, da baterija vsebuje živo srebro, kadmij ali svinec v količinah, ki presegajo referenčne nivoje v direktivi EC 2006/66. Če te baterije niso ustrezno odstranjene, te snovi lahko škodujejo zdravju ljudi oziroma okolju. Za zaščito naravnih virov in za vzpodbujanje ponovne uporabe materialov prosimo, ločite te baterije od ostalih odpadkov in jih oddajte na predvidenih lokalnih zbirnih reciklažnih mestih.

[Slovenščina]

Korrekt avfallshantering av batterierna i denna produkt

(Gäller EU och andra europeiska länder med särskild batteriåtervinning.) Denna markering på batteriet, i manualen eller på förpackningen anger att batterierna i denna produkt inte bör slängas tillsammans med annat hushållsavfall. De kemiska symbolerna Hg, Cd eller Pb visar i förekommande fall att batterierna innehåller kvicksilver, kadmium eller bly i mängder överstigande de gränsvärden som anges i EU-direktivet 2006/66. Om batterierna inte slängs på ett ansvarsfullt sätt kan dessa substanser utgöra en fara för hälsa eller miljö. Hjälp till att skydda naturresurser och bidra till materialåtervinning genom att sortera batterierna separat från annat avfall och lämna in dem på en återvinningsstation.

[Svenska]

KKorrekt bortskaffelse af batterierne i dette produkt

(Gælder i EU og andre europæiske lande med særlige retursystemer for batterier).

Mærket på dette batteri, dokumentationen eller emballagen betyder, at batterierne i dette produkt efter endt levetid ikke må bortskaffes sammen med andet husholdningsaffald. Mærkning med de kemiske symboler Hg, Cd eller Pb betyder, at batteriet indeholder kviksølv, cadmium eller bly over grænseværdierne i EU-direktiv 2006/66. Hvis batterierne ikke bortskaffes korrekt, kan disse stoffer være skadelige for menneskers helbred eller for miljøet. For at beskytte naturens ressourcer og fremme genbrug, skal batterier holdes adskilt fra andre typer affald og genanvendes via dit lokale, gratis batteriretursystem.

[Dansk]

Korrekt avhending av batterier i dette produkt

(Kommer til anvendelse i Den europeiske union og i andre europeiske land med separate systemer for retur av batterier.)

Denne merkingen på batteriet, håndboken eller emballasjen angir at batteriene i dette produktet ikke skal kastes sammen med annet husholdningsavfall ved slutten av sin levetid. Der det er merket, angir de kjemiske symbolene Hg, Cd eller Pb at batteriet inneholder kvikksølv, kadmium eller bly over referansenivåene i EF-direktiv 2006/66. Hvis batteriene ikke avhendes på riktig måte, kan disse stoffene skade menneskers helse eller miljøet. For å beskytte naturressurser og for å fremme gjenbruk av materialer, ber vi deg adskille batterier fra andre typer avfall og resirkulere dem ved å levere dem på din lokale, gratis mottaksstasjon.

[Norsk]

Tuotteen paristojen oikea hävittäminen

(Koskee Euroopan Unionia ja muita Euroopan maita, joissa on erillinen paristojen palautusjärjestelmä.)

Pariston, käyttöoppaan tai pakkauksen tämä merkintä tarkoittaa, että tämän tuotteen sisältämiä paristoja ei saa hävittää muun kotitalousjätteen seassa, kun niiden käyttöikä on päättynyt. Kemiallinen symboli Hg, Cd tai Pb ilmaisee, että paristo sisältää elohopeaa, kadmiumia tai lyijyä ylin EU: n direktiivien 2006/66 viiterajojen. Jos paristoja ei hävitetä oikein, nämä aineet voivat vahingoittaa ihmisten terveyttä tai ympäristöä. Suojaa luonnonvaroja ja edistä materiaalien uusiokäyttöä - erottele paristot muusta jätteestä ja toimita ne kierrätettäväksi paikalliseen maksuttomaan paristojen palautusjärjestelmään.

[Suomi]

A termékhez tartozó akkumulátorok megfelelő ártalmatlanítása

(Az Európai Unió területén és más, önálló akkumulátorleadó rendszerrel rendelkező európai országok területén alkalmazandó.)

Az akkumulátoron, a kézikönyvön vagy a csomagoláson szereplő jelzés arra utal, hogy hasznos élettartama végén a terméket nem szabad egyéb háztartási hulladékkal együtt kidobni. Ahol szerepel a jelzés, a Hg, Cd vagy Pb kémiai elemjelölések arra utalnak, hogy az akkumulátor az EK 2006/66. számú irányelvben rögzített referenciaszintet meghaladó mennyiségű higanyt, kadmiumot vagy ólmot tartalmaz. Az akkumulátorok nem megfelelő kezelése esetén ezek az anyagok veszélyt jelenthetnek az egészségre vagy a környezetre. A természeti erőforrások megóvása és az anyagok újrafelhasználásának ösztönzése érdekében kérjük, különítse el az akkumulátorokat a többi hulladéktól és vigye vissza a helyi, ingyenes akkumulátorleadó helyre.

[Magyar]

Sposób poprawnego usuwania baterii, w które wyposażony jest niniejszy produkt

(Dotyczy obszaru Unii Europejskiej oraz innych krajów europejskich posiadających oddzielne systemy zwrotu zużytych baterii.)

Niniejsze oznaczenie na baterii, instrukcji obsługi lub opakowaniu oznacza, że po upływie okresu użytkowania baterie, w które wyposażony był dany produkt, nie mogą zostać usunięte wraz z innymi odpadami pochodzącymi z gospodarstw domowych. Przy zastosowaniu takiego oznaczenia symbole chemiczne (Hg, Cd lub Pb) wskazują, że dana bateria zawiera rtęć, kadm lub ołów w ilości przewyższającej poziomy odniesienia opisane w dyrektywie WE 2006/66. Jeśli baterie nie zostaną poprawnie zutylizowane, substancje te mogą powodować zagrożenie dla zdrowia ludzkiego lub środowiska naturalnego. Aby chronić zasoby naturalne i promować ponowne wykorzystanie materiałów, należy oddzielać baterie od innego typu odpadów i poddawać je utylizacji poprzez lokalny, bezpłatny system zwrotu baterii.

[Polski]

Σωστή απόρριψη των μπαταριών αυτού του προϊόντος

(Ισχύει στην Ευρωπαϊκή Ένωση και άλλες ευρωπαϊκές χώρες με συστήματα ξεχωριστής ανακύκλωσης μπαταριών.)

Αυτή η επισήμανση πάνω στη μπαταρία, το εγχειρίδιο ή τη συσκευασία υποδεικνύει ότι οι μπαταρίες αυτού του προϊόντος δεν πρέπει να απορρίπτονται μαζί με άλλα οικιακά απορρίμματα στο τέλος του κύκλου ζωής τους. Όπου υπάρχουν, τα χημικά σύμβολα Hg, Cd ή Pb υποδεικνύουν ότι η μπαταρία περιέχει υδράργυρο, κάδμιο ή μόλυβδο πάνω από τα επίπεδα αναφοράς της Ευρωπαϊκής Οδηγίας 2006/66. Αν οι μπαταρίες δεν απορριφθούν σωστά, αυτές οι ουσίες ενδέχεται να προκαλέσουν βλαβερές συνέπειες στην ανθρώπινη υγεία ή το περιβάλλον. Παρακαλούμε διαχωρίζετε τις μπαταρίες από άλλους τύπους απορριμμάτων και ανακυκλώνετέ τις μέσω του τοπικού σας, δωρεάν συστήματος ανακύκλωσης μπαταριών, για την προστασία των φυσικών πόρων και την προώθηση της επαναχρησιμοποίησης υλικών.

[Ελληνικά]

Правилно изхвърляне на батериите в този продукт

(Приложимо в Европейския съюз и други европейски държави със самостоятелни системи за връщане на батерии.)

Това обозначение върху батерията, ръководството или опаковката, показва, че батериите в този продукт не бива да се изхвърлят с другите битови отпадъци в края на техния полезен живот. Където са маркирани, химическите символи Hg, Cd или Pb показват, че батерията съдържа живак, кадмий или олово над контролните нива в Директива 2006/66 на ЕО. Ако батериите не се изхвърлят правилно, тези вещества могат да предизвикат увреждане на човешкото здраве или на околната среда. За да предпазите природните ресурси и за да съдействате за многократната употреба на материалните ресурси, моля отделяйте батериите от другите видове отпадъчни продукти и ги рециклирайте посредством Вашата локална система за безплатно връщане на батерии.

[Български]

Správná likvidace baterií v tomto výrobku

(Platí v Evropské unii a dalších evropských zemích s vlastními systémy zpětného odběru baterií.)

Tato značka na baterii, návodu nebo obalu znamená, že baterie v tomto výrobku nesmí být na konci své životnosti likvidovány společně s jiným domovním odpadem. Případně vyznačené symboly chemikálií Hg, Cd nebo Pb upozorňují na to, že baterie obsahuje rtuť, kadmium nebo olovo v množství překračujícím referenční úrovně stanovené směrnicí ES 2006/66. Pokud baterie nejsou správně zlikvidovány, mohou tyto látky poškodit zdraví osob nebo životní prostředí. Pro ochranu přírodních zdrojů a pro podporu opakovaného využívání materiálů oddělte, prosím, baterie od ostatních typů odpadu a nechte je recyklovat prostřednictvím místního bezplatného systému zpětného odběru baterií.

[Čeština]

Správna likvidácia batérií v tomto výrobku

(Aplikovateľné v krajinách Európskej únie a v ostatných európskych krajinách, v ktorých existujú systémy separovaného zberu batérií.)

Toto označenie na batérii, príručke alebo balení hovorí, že batérie v tomto výrobku by sa po skončení ich životnosti nemali likvidovať spolu s ostatným domovým odpadom. V prípade takéhoto označenia chemické symboly Hg, Cd alebo Pb znamenajú, že batéria obsahuje ortuť, kadmium alebo olovo v množstve presahujúcom referenčné hodnoty smernice 2006/66/ES. Pri nevhodnej likvidácii batérií môžu tieto látky poškodiť zdravie alebo životné prostredie. Za účelom ochrany prírodných zdrojov a podpory opätovného použitia materiálu batérie likvidujte oddelene od iných typov odpadou a recyklujte ich prostredníctvom miestneho systému bezplatného zberu batérií.

[Slovensky]

Dispoziții privind eliminarea corectă a bateriilor acestui produs

(aplicabile în Uniunea Europeană şi în alte țări europene cu sisteme separate de colectare a bateriilor)

Acest marcaj de pe baterie, de pe manualul de utilizare sau de pe ambalaj indică faptul că bateriile acestui produs nu trebuie eliminate împreună cu alte deşeuri menajere la sfârşitul ciclului lor de viață. Dacă sunt marcate, simbolurile chimice Hg, Cd sau Pb indică faptul că bateria conține mercur, cadmiu sau plumb peste nivelurile de referință prevăzute în Directiva CE 2006/66. În cazul în care bateriile nu sunt eliminate corespunzător, aceste substanțe pot fi dăunătoare pentru sănătatea omului sau pentru mediu. În vederea protejării resurselor naturale şi a promovării refolosirii materialelor, vă rugăm să separați bateriile de celelalte tipuri de deşeuri şi să le reciclați prin intermediul sistemului gratuit de returnare a bateriilor la nivel local.

[Română]

Šī izstrādājuma bateriju pareiza utilizācija

(Piemērojama Eiropas Savienībā un citās Eiropas valstīs ar atsevišķām bateriju nodošanas sistēmām.)

Šis marķējums uz baterijas, rokasgrāmatā vai uz iepakojuma norāda, ka šī izstrādājuma bateriju pēc tās kalpošanas laika beigām nedrīkst izmest ar citiem sadzīves atkritumiem. Ja uz baterijas ir atzīmēti ķīmiskie simboli, piem., Hg, Cd vai Pb, tie norāda, ka baterija satur dzīvsudrabu, kadmiju vai svinu, kura saturs ir lielāks par EK Direktīvā 2006/66 minētajiem lielumiem. Ja baterijas tiek nepareizi likvidētas, šīs vielas var radīt kaitējumu cilvēku veselībai vai videi. Lai aizsargātu dabas resursus un veicinātu materiālu otrreizēju izmantošanu, šķirojiet baterijas atsevišķi no citiem atkritumu veidiem un nododiet tās otrreizējai pārstrādei, izmantojot bateriju vietējo bezmaksas nodošanas sistēmu.

[Latviešu]

Tinkamas šio produkto akumuliatorių tvarkymas

(Taikoma Europos Sąjungoje ir kitose Europos šalyse, kuriose galioja atskiros akumuliatorių grąžinimo sistemos.)

Šis ženklas yra pateikiamas ant akumuliatoriaus, jo dokumentacijoje ar ant pakuotės nurodo, kad šio produkto akumuliatorių, pasibaigus jų tarnavimo laikui, negalima išmesti kartu su kitomis buitinėmis atliekomis. Cheminiai simboliai Hg, Cd arba Pb rodo, kad akumuliatoriuje yra gyvsidabrio, kadmio ar švino, kurio kiekis viršija normą, nurodytą ES direktyvoje 2006/66. Jei akumuliatoriai nebus tinkamai išmesti, šios medžiagos gali sukelti žalos žmonių sveikatai ar aplinkai. Tam, kad būtų apsaugoti gamtos ištekliai ir skatinamas antrinių žaliavų panaudojimas, pašome atskirti akumuliatorių nuo kitų rūšių atliekų ir atiduoti perdirbti vietinėje akumuliatorių grąžinimo sistemai.

[Lietuvių kalba]

Õige viis toote akude kasutusest kõrvaldamiseks

(Rakendatav Euroopa Liidus ja teistes Euroopa riikides, kus on kasutusel spetsiaalsed akude kogumissüsteemid).

Selline tähistus akul, dokumentidel või pakendil näitab, et toote akusid ei tohi kasutusaja lõppemisel kõrvaldada koos muude olmejäätmetega. Keemilised elemendid Hg, Cd, või Pb näitavad, et aku elavhõbeda, kaadmiumi või plii sisaldus on EÜ direktiivi 2006/66 sihttasemest suurem. Kui akusid ei kõrvaldata õigel viisil, võib nende sisu põhjustada tervise-või keskkonnakahjustusi. Selleks, et kaitsta loodusvarasid ja edendada materjalide taaskasutamist, eraldage akud muudest jäätmetest ja suunake need taaskasutusse kohaliku, tasuta teenusena pakutava akude tagastussüsteemi abil.

[Eesti]